STIC Database Tracking Number: 114289

TO: Lorraine Spector

Location: REM/4D5\$/4C70

Art Unit: 1647

Monday, February 23, 2004

Case Serial Number: 10/063671

From: Toby Port

Location: Biotech-Chem Library

Remsen 1A59

Phone: 571-272-2523

toby.port@uspto.gov

Search Notes

Dear Examiner Spector,

Here are the results of your search.

Please feel free to contact me if you have any questions.

Toby Port



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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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SUMMARIES

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Ferrara, Gerber, H., Gerritsen, M.E., Godda J., Gurney, A.L., Hillan, K.J., Marsters, S.A., Stephan, J.P., Watanabe, C.K., Williams, P.M., Is and methods for the diagnosis and treatment involving angiogenesis 0208284-A 49 31-JAN-200; Inc. (US); Baker, Kevin P. (US); Ferrara, Ner, Hanspeter (US); Gerritsen, Mary E. (US); Gurney, Austin L., Seth J. (US); Marsters, Scot A. (US); Pan, Cholas F. (US); Stephan, Jean-Philippe F. (Us) in the colonial form of the colonial for	AX454464 AX454464 Sequence 49 from Patent WC0208284. AX454464 AX454464 GI:21713856 Homo sapiens (human) Homo sapiens (human) Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Nammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.	01 61 61 61 61 61 61 61 61 61 61 61 61 61	CCCAAAGCTCAGTGCTCTCCCCCCCCCAAAGGAAGGAAGG
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661 CATGCCGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTG	Db Oy	AX697644.1 GI:29498737	ACCESSION VERSION KEYWORDS
601 ACGAGGACTGTGGGCCCAGCATGTACTGCCAGTTTGCCAGCTTCCAGTACACCTGCCAGC 660	da Vo	AX697644	RESULT 4 AX697644 LOCUS
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GENENUTECH INC

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PN JP 2001516580-A/195

PP 16-SEP-1998 JP 2000511867

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PC C12N15/09,C07K14/47,C07K14/705,C07K16/18,C07K16/28,C07K19/00,

PC C12N1/21,

PC C12N1/21,C12N5/10,C12P21/02,C12P21/08,C12Q1/02//(C12P21/08, PC C12R1:91),

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BD172422
BD172422.1 GI:28413722
JP 2002223786-A/195.
Homo sapiens (human)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; I
Eukaryota; Metazoa; Chordata; Catarrhini; Hominidae;
I (bases 1 to 2586)
Wood, W. I., Gurney, A. L., Goddard, A., Pennica, D., Zhen
Patent: JP 2002223786-A 195 13-AUG-2002 GENENTECH INC
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PN 7 20022736-A/195
PD 13-AUG-2002
PF 18-DEC-2001 UP 200138
PF 18-DEC-2001 UP 200138
PF 17-SEP-1997 US 60/05911:
17-SEP-1997 US 60/05921:
17-SEP-1997 US 60/05281:
18-SEP-1997 US 60/0628
17-OCT-1997 US 60/06348
24-OCT-1997 US 60/06334
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24-OCT-1997 US 60/06334
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PI JEAN YUAN

PC C12N15/09,C07K14/47,C07K16/18,C07K19/00,C12N1/19,C12N1/21,

C12N5/10,

PC C12P21/02/C12P21/08,(C12P21/02,C12R1:19),(C12P21/02,C12R1:91),

(C12P21/02,C12R1:645),C12N15/00,C12N5/00

CC Secreted and transmembrane polypeptides and nucleic CC accencoding the same

Encoding the same

Location/Qualifiers

FT Source (organism='Homo sapiens (human)'.
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llarity 100.0%;
Conservative 0;
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GENENTECH IUC

OS HOMO SAPIENS (human)

PN JP 2002238586-A/195

PD 27-AUG-2002

PF 18-DEC-2001 JP 2001385205

PR 17-SEP-1997 US 60/05912, 11

17-SEP-1997 US 60/05913, 11

17-SEP-1997 US 60/059287, 11

17-CCT-1997 US 60/05287, 11

17-CCT-1997 US 60/05287, 12

21-CCT-1997 US 60/053486, 22

24-CCT-1997 US 60/05349, 22

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24-CCT-1997 US 60/063345, 22

26-CCT-1997 US 60/063345, 22

27-CCT-1997 US 60/063345, 22

28-CCT-1997 US 60/06334, 23

29-CCT-1997 US 60/06334, 23

29-CCT-1997 US 60/063704, 23

29-CCT-1997 US 60/063702, 31

31-CCT-1997 US 60/063703, 31

29-CCT-1997 US 60/063970, 31

21-NOV-1997 US 60/066120, 31

21-NOV-1997 US 60/066770, 24

24-NOV-1997 US 60/066770, 24
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CC Secreted and transmembrane polypeptides and nucleic CC acid
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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                                          AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACT
                                                                                                               TGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGG
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                    <u>AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACT</u>
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
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                                                          GCCACCCTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGT
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OS Homo Bapiens (human)
PN JP 2002238588-A/195
PN JP 2002238588-A/195
PD 27-AUG-2002
PF 18-DEC-2001 JP 2001385311
PR 17-SEP-1997 US 60/05912,11
17-SEP-1997 US 60/05913,11
17-SEP-1997 US 60/05926,11
17-CCT-1997 US 60/062287,11
17-CCT-1997 US 60/062120,22
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25-CCT-1997 US 60/063120,22
26-CCT-1997 US 60/063121,22
29-CCT-1997 US 60/063121,23
29-CCT-199
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JP 2002238588-A/195.
Homo sapiens (human)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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                                                                                                                              /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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60/059113,17-SEP-1997 US

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Pred. No. 0;
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681 CAGCTGTTGCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCA 1	ACGAGGACTGTGGGCCCAGCATGTACTGCCAGTTTGCCAGCTACCAGCTGCCAGC 660	Qy 601 ACGAGGACTGTGGGC
	AGACAGTTATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAGCCACGAGTGCATCG 600	Qy 541 AGACAGTTATCACAT
SOLITION INCOME SOLITION	ATGTGCACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAG 540	Qy 481 ATGTGCACCGAGAAA Db 481 ATGTGCACCGAGAAA
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	CCGGCGGAGCAACTCCAGTCCGGCCCGCAGCGCAACTCGGTCCA 120	Qy 61 CCGGCGGCCTCCCGC
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The same
Patent: UP 2002253280-A 195 10-SEP-2002;
GENENTECH INC
OS Homo sapiens (human)
PD 10-SEP-2002
PP 18-DEC-2001 UP 2001385319
PR 17-SEP-1997 US 60/05912,17-SEP-1997 US
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JP 2002253280-A/195.
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31-OCT-1997 US 60/064809,12-NOV-1997 US 60/064248 PR
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24-NOV-1997 US 60/066772,24-NOV-1997 US 60/066311 PR
24-NOV-1997 US 60/066772,24-NOV-1997 US 60/066811 PR
24-NOV-1997 US 60/066453,25-NOV-1997 US 60/066840 PI
WILLIAM I WOOD,AUSTIN L GURNBY,AUDREY GODDARD,DIANE PENNICA, PI
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PC 612755/00,A61745/00,A6171/00,A61717/00,A61717/06, PC
A617255/00,
CC 71275/00,
PC A61725/00,C12N1/21,C12N5/10/A61X38/00,A61X39/395,A61X39/395,
PC C12N1/19,C12N1/21,C12N1:645),(C12N1/21,C12R1:19),(C12N5/10,
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antise		1621 AAATGCAACAAATGAATTTTCCACGCAGTTCTTTCCATGGGCATAGGTAAGCTGTGCCTT 1680
BD093626 BD093626 BD093626 2660 bp DNA linear PAT 27-AUG-2002 DEFINITION Cell proliferation inhibiting proteins, polynucleotides,	LOC BDO	561 TGATTGGTTTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAA 162
	R.F.S	561 ТСЭЛТГССТТГТСССТАБАЛАГСТССБАДАДСАДСАДАДСАДССТССТТТССЛАДССТССТСТССТТССТТССТТССТТССТТССТТССТТСС
2581 AAAAAA 2586	dd	501 TOTA CA TIGGETTING ATTACKTOR AS ASSOCIATION AS A SECTION AS A SECT
2581 AAAAAA 2586	. Qy	MANAMARKA DARAKARITATAN MANAKARARATTAN TARITAKARAKATAN DALAKARATAN MANAMARKATATAN DARITATAN MANAMARKARAKARAKAR
2521 ARGITECHATITAGAAAT CAAGATAAAT CACITECHACTECHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	40	1 GCCACCCCTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGT 150
461 TAAAGTTGCACATGATTGTATAAGCATGCTTTCTTTGAGTTTTAAATTATGTATAAACAT	Db .	1381 CCAGGCTTCACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTT 1440
2461 TARAGGTTGTACATGATGTATARAGCATGCTTTCTTTTTTTTTT	90	1321 TCCCCTCTGGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCAGGCTGTTCT 1380
2341 TGTGTGAAACATGGTTGTAATATGCGACTGCGAACACTGAACTCTACGCCACTCCACAAA 2400 2401 TGATGTTTTCAGGTGTCATGGAACTGTTGCCACCATGTTATTCATCCAGAGTTCTTAAAGTT 2460	Db Qy	1261 GGTGTGTGTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTT 1320
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101 GTTCTCACAGTGTGGGGCAGCCGTCCTTCTAATGAAGACAATGATATTGACACTGTCCCT	ם מ	1021 GGAGCCGTGACCAAGATGGGGAGATCCTGCTGCCGAGAGAGGTCCCCGATGAGTATGAAG 1080
041 ATTAA	Db -	961 GCCTCCTCTGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGG 1020
1981 CCAAAAGTGCTCCCCAAAAGGAAGGAGAATGGGATTTTTCTTGAGGCATGCACATCTGGA 2040 2041 ATTAAGGTCAAACTAATTCTCACATCCCTCTAAAAGTAAACTACTGTTAGGAACAGCAGT 2100	Qy Qy	901 ACCTCATCACCTGGGAGCTAGAGCCTGGATGGACCGATGCCCTTGTGCCAGTG 960
1921 ATCTGGTTGTGACTCTAAGCTCAAGGAGGACTGCTCCCACTACCCACCC	Qy Db	1 ISLAMACIC BULUE BANGSCEARCH INCLAIGHCUC CACCUCACUTE 90
1861 GCTCAGAGACTGCAAGCTGCTTGCCCAAGTCACACAGCTAGTGAAGACCAGAGCAGTTTC 1920 1921 ATCTGGTTGTGACTCTAAGCTCAGTTGTTCTTCTCCACTACCCCACACCAGCCTTGGTGCCA 1980	dd Ag	81 ACCAGAGGGACTGCCAGCCGGGGCTGTGCTGCCTTCCAGAGAGGCCTGCTGTTCCCTG 8
861 GCTCAGAGAGTGCAGAGTGCTTGCCCCAAGTCACAGAGAGCTAGTGAAGAGCAGAGAGTTTC 1	γQ	ACCAAAATGGCCÁCCAGGGCAGCAÁTGGGACCATCT CCGGGGCTGTGCTGTGCCTTCCAGAGAGGCCTGCTGT
1801 TCTCTCAGCACAGCCTGGGGAGGGGGTCATTGTTCTCCTCGTCCATCAGGGATCTCAGAG 1860	dg VQ	21 GTGTCTGGGGTCACTGCACCAAAATGGCCACCAGGGGCAGCAATGGGGACCATCTGTGACA 78
1741 GTGTTGGTCAGGTCCTACCTCTGTGCCAGGGCAGCATTTTCATATCCCAGGATCAGTTCCC 1800 1741 GTGTTGCTCAGGTCCTACCTCTGTGCCAGGCAGCATTTTCATATCCAAGATCAATTCCC 1800	Db	661 CATGCCGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTG
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	⊋ B	541 AGACAGTTATCACATCTGTGGGAGAGCGAAGAAGGAAGGA

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BD093626.1 GI:22639214
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Homo sapiens (human)
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AB057591
AB057591.1 GI:18461107
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Ouchida, M., Kobayashi, K.,
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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FASFQYTCQPCRGQRMLCTRDSECCGDQLCVWGHCTKWATRGSNGTICONQRDCQPGL
CCAFGRGLHPWCTPLPVEGELCHDAASKLLDLITWBLEPDGALDRCPCASGLLCQPH
SHSLVYVCKPTFVGSRDQDGBILLPREVPDEYEVGSFMEEVRQELEDLERSLTEEMAL
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This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Web site: http://www.nisc.nih.gov/
Contact: nisc_mgc@nhgri.nih.gov/
Shevchenko,Y., Wetherby,K.D., Beckstrom-Sternberg,S.M.,
Benjamin,B., Blakesley,R.W., Bouffard,G.G., Brinkley,C., Brooks,S.,
Dietrich,N.L., Guan,X., Gupta,J., Ho,S.-L., Karlins,E., Legaspi,R.,
Lim,M., Maduro,O.L., Masiello,C., Mastrian,S.D., McCloskey,J.C.,
McDowell,J., Pearson,R., Snyder,B., Stantripop,S., Thomas,P.J.,
Tiongson,E.E., Touchman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A.,
Zhang,L.-H. and Green,E.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (11-MAY-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
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Procurement: DCTD/DTP
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FASFQYTCQCCRGQRMLCTRDSECCGDQLCVWGHCTKWATRGSNGTICDNQRDCQPGL
CAAFQRGLLFPYCTFLLFVGEBLCHDASRLLDLITWELEPDGALDRCPCASGLLCQPH
CCAFGRGLFYCTPGSRDQDGEILLPREVPDEYEVGSFMEEVRQELEDLERSLTEEMAL
                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="LocusID:27122"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                    /clone="MGC:1123 IMAGE:3347453"
/tlssue_type="Kidney, renal cell
/clone_lib="NIH_MGC_14"
/lab_host="DH10B-R"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                           /note="Vector: pOTB7"
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Primates;
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                                                                                                                   CGTGACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGGTCCCCGATGAGTATGAAGTTGGC
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0; Mismatches
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2164 TGGCAGTTGCATTAGTAACTTTGAAAGGTATATGACTGAGCGTAGCATACAGGTTAACCT 2223	2044 AAGGTCAAACTAATTCTCACATCCCTCTAAAAGTAAACTACTGTTAGGAACAGCAGTGTT 2103 2141 AAGGTCAAACTAATTCTCACATCCCTCTAAAAGTAAACTACTGTTAGGAACAGCAGTGTT 2200 2141 AAGGTCAAACTAATTCTCACATCCCTCTAAAAGTAAACTACTGTTAGGAACAGCAGTGTT 2200 2104 CTCACAGTGTGGGGCAGCCGTCCTTCTAATGAAGACAATGATATTGACACTGTCCCTCTT 2163	1926 GTTGTGACTCTAAGCTCAGTGCTCTCCACCTACCCCACACCAGCCTTGGTGCCACCAAA 1985	1806 CAGCACAGCCTGGGGAGGGGTCATTGTTCTCCTCGTCCATCAGGGATCTCAGAGGCTCA 1865	1686 GTTGCAGATGAATGTTCTGTTCACCCTGCATTACATGTTTTATTCATCCAGTGTT 1745	GGTTTTGGGGAAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAAAAATG	1541 CCCTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTAC 1600 1506 ATGGCTTTGATATTGTTTGAGGGGAGAGAGGGAAACAATGTGGAAGTCTCCCTCTGATT 1565	1421 TCTGGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCCAGGCTGTTCTCCAGG 1480 1386 CTTCACAGTCTGGTGCTTGGGAAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTTGCCAC 1445	1266 GTGCTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCCTCCAGTAAGTTTCCCC 1325	1181 AGCTTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGGAGCCTGACTGA
Query Match 94.6%; Score 2446.4; DB 6; Length 2632; Best Local Similarity 99.9%; Pred. No. 0; Matches 2459; Conservative 0; Mismatches 1; Indels 2; Gaps 1;	FEATURES Location/Qualifiers 1. 2632 forganism="Homo sapiens" /mol_type="genomic_DNA" /mol_type="genomic_DNA" /db_xref="texon:9606" BASE COUNT 646 a 647 c 740 g 599 t ORIGIN	PD 31-MAY-2001 PF 30-AUG-2000 WO 2000JP005879 PR 19-NOV-1999 JP 99P 330604 PI MASAYOSHI NAMBA, TOSHIYA TSUJI PC C12N15/12, C07K14/47, C12Q1/68, C12P21/02, A61K38/17, A61K31/711, PC A61K48/00 PC A61K48/00 FH Key Location/Oualifiers.	Cell pro antisens prolifer therapeu therapeu Patent: HISAMITS OS PN WO	VERSION BU09482/.1 G1:22639215 KERYWORDS WO 0138528-A/3. SOURCE Homo sapiens (human) ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; REFERENCE 1 (Dasses 1 to 2632) AUTHORS Namba,M. and Tsuji,T.	RESULT 14 BD093627 BD093627 BD093627 BD093627 BD2FINITION Cell proliferation inhibiting proteins, polynucleotides, antisenspolynucleotides to the polynucleotides, and cell proliferation inhibiting agents, cancer diagnostic agents, cancer therapeutic agents and compositions for gene therapy using same. ACCESSION BD093627	AAA 2586 		Oy 2344 GTGAAACATGGTTGTAATATGGGAACACTGAACTCTACGCCACACATGA 2403	2224 GCAGAACAGTACTTAGGTAATTGTAGGCGAGGATTATAAATGAAATTTTGCAAAATCAC

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1803	1744 TIGCTCAGCTCCTACCTCTGTGCCAGGGCAGCATTTCATATCCAAGATCAATTCCCTCT
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p07225 homo sapien
p18564 homo sapien
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Q9z019 drosophila
Q64632 rattus norv
Q9nyj7 homo sapien
p10040 drosophila
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Q80918 mus musculu
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Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., A Raha S.S., Loquellano N.A., Peters G.J., Malek J.A., Gunaratine P.H., A Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratine P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A., Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A., Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Butterfield Y.S.N., Krzywinski M.I., Schmutz J., Myers R.M., Schalls Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.; "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.", "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.", "Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).

Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).

--- FUNCTION: INHIBITOR OF WNT SIGNALING PATHWAY (POTENTIAL).

--- SUBCELLULAR LOCATION: Secreted.

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                                                                                                                                                                                                                                                                   4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pathway; Glycoprotein
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                                                                                                                                                                                                   Length
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) (POTENTIAL)
) (POTENTIAL)
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В Ş 밁 5

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RESULT 2
DKK3_MOUSE
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                                                                                                                  XX MEDLINE-2708560; Pubmedel121851;
XX MEDLINE-2708560; Pubmedel121851;
XX MEDLINE-2708560; Pubmedel121851;
XX Arakawa T., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
XX Arakawa T., Hara A., Fhkunishi Y., Konno H., Adachi J., Fukuda S.,
XX Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
XX Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
XX Asito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
XX Kacota K., Matsuda H.A., Ashburna K.,
XX Kacota K., Matsuda H.A., Ashburna K.,
XX Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Oyackenbush J.,
XX Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Oyackenbush J.,
XX Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Oyackenbush J.,
XX Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Oyackenbush J.,
XX Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Oyackenbush J.,
XX Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Oyackenbush J.,
XX Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Oyackenbush J.,
XX Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Oyackenbush J.,
XX Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Oyackenbush J.,
XX Kuchl P., Lewis S., Matsuo Y., Sugner L., Washio T.,
XX Asaik K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
XX Blake J., Boifelli D., Hofmann M., Carninci P., de Bonaldo M.F.,
XX Asaik H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
XX Asaiki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
XX Asaiki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
XX Asaiki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
XX Asaiki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
XX Asaiki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
XX Asaiki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
XX Asaiki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
XX Asaiki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.,
XX
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16-0CT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.

MEDLINE=20035735; PubMed=10570958;

Krupnik V.E., Sharp J.D., Jiang C., Robison K., Chickering T.

Krupnik V.E., Sharp J.D., Guyot D., Ways G., Leiby K., Chang

Duong T., Goodearl A.D.J., Gearing D.P., Sokol S.Y., McCarthy

"Functional and structural diversity of the human Dickkopf ge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
MCBI TaxID=10090;
                                                                                 Wynshaw-Boris A., Yoshi
Hayashizaki Y.;
"Functional annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.

MEDLINE-99425169; PubMed=10495270;

Monaghan P.A., Kioschis P., Wu W.,

Delius H., Niehrs C.;

"Dickkopf genes are co-ordinately;

Mech. Dev. 87:45-56(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-OCT-2001 (Rel.
15-SEP-2003 (Rel.
Dickkopf related
-i- FUNCTION: INHIBITOR OF WNT SIGNALING PATHWAY (POTENTIAL)
-i- SUBCELLULAR LOCATION: Secreted.
-i- TISSUE SPECIFICITY: HIGHEST EXPRESSION IN ERAIN, EYE, AN
                                     Nature 409:685-690(2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=C57BL/6J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
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1) (Rel. 40, Last sequence updi
1) (Rel. 42, Last annotation unleaded protein-3 precursor (D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (Mouse)
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                                                                                   of a
                                                                                      full-length mouse
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Sciurognathi; Muridae; Murinae; Mus.
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(Dkk-3)
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                                                                                      CDNA
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    BRAIN, EYE, AND HEART
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-!- SIMILARITY: BELONGS

TO THE DICKKOPF FAMILY.

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DKG_CHICK
ID DKKG_CHICK
ID DKKG_CHICK
ID DKKG_C
DT 01-NOV
DT 01-NOV
DT 15-SEP
DE Dickko
DE Dickko
DE Drotcko
GALlus
OC Gallus
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Best Local Similarity
Matches 288; Conserv
                                                                                                                                                                      DKK3 CHICK
Q90839;
01-NOV-1997
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CARBOHYD
CARBOHYD
CARBOHYD
SEQUENCE
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                                                                                                     protein
DKK3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AJ243964; CAB60111.1; -.
EMBL; AF177400; AAF02680.1; -.
EMBL; AK004853; BAB23617.1; -.
                                                                     Gallus gallus (Chicken).
Eukaryota; Metazoa; Chor
                                                                                                                           01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence up
15-SEP-2003 (Rel. 42, Last annotation
Dickkopf related protein-3 precursor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MGD, MGI:1354952; Dkk3.
InterPro; IPR006796; dickkopf_N.
Pfam; PF04706; dickkopf_N; 1.
Developmental protein; Signal, Wnt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIGNAL
   SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
                        CBI_TaxID=9031;
                                                                                                                                                                                                                                                                            301
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                                                                                                                  CLFEST4)
                                                                                                                                                                                                                                                                                                                                                           CHDPASRILIDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TQHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MORLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
                                                                                                                                                                                                                                                                            PREAPDEYEDVGFIGEVRQELEDLERSLAQEMAFEGPAPVES--LGGEE
                                                                                                                                                                                                                                                                                                                                                                                           DSECCGDQLCAWGHCTQKATKGGNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLFVEGEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                    NOSGOVVESETVITSVGDEEGKRSHECIIDEDCGPTRYCOFSSFKYTCOPCRDQQMLCTR
                                                                                                                                                                                                                                                                                                      PREVPDEYEVGSFMEEVROELEDLERSLTEEMALGEPAAAAAALLGGEE
                                                                                                                                                                                                                                                                                                                                   CHDPTSQLLDLITWELEPEGALDRCPCASGLLCQPHSHSLVYMCKPAFVGSHDHSEESQL
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                                                       Metazoa; Chordata;
a; Aves; Neognathae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     147
208
208
106
121
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                                                                                                                                                                                                       STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22 P
349 D
195 D
284 D
264 D
106 N
121 N
204 N
38387 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26;
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DICKOOP RELATED PROTEIN-3.

DKK-TYPE CYS-2.

N-LINKED (GLCNAC. . .) (POI

N-LINKED (GLCNAC. . .) (POI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 1589; DB 1
Pred. No. 3e-107;
                                                         Craniata; Ver; Galliformes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  signaling pathway; Glycoprotein
                                                                                                                                                          update)
                                                                                                                              n update)
(Dkk-3)
                                                                                                                                                                                                       350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RELATED PROTEIN-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (See http://www.isb-sib.ch/announce,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rmatics and the EMBL outsue There are no restrictions mg as its content is in
                                                          Vertebrata; Euteleostomi:
mes; Phasianidae; Phasiani
                                                                                                                                                                                                     B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               33;
                                                                                                                                (Dickkopf-3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 349;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
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(POTENTIAL).
(POTENTIAL).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gh a collaboration -
                                                          Phasianinae;
                                                                                                                                (Lens
                                                                                                                                                                                                                                                                                                         349
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Best Local Similarity
Matches 193; Conserv
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MEDLINE=96437509; PubMed=8840185;
Sawada K. Agata K. Eguchi G.;
'Characterization of terminally differentiated cell
categorizing cDNA clones derived from chicken lens
Int. J. Dev. Biol. 40:531-535 (1996).
-!- FUNCTION: INHIBITOR OF WNT SIGNALING PATHWAY (B
-!- SUBCELIUTLAR LOCATION: Secreted (Potential).
-!- TISSUE SPECIFICITY: EXPRESSED IN EYE LENS.
-!- SIMILARITY: BELONGS TO THE DICKKOFF FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPRO6796; dickkopf N.

Pfam; PF04706; dickkopf N; 1.

Pfam; PF04706; dickkopf N; 1.

Developmental protein; Signal; Wnt signal; 
                                             DKK4 HUMAN STANDARI
Q9UBT3; Q9Y4C3;
16-OCT-2001 (Rel. 40, C
16-OCT-2001 (Rel. 40, I
15-SEP-2003 (Rel. 42, I
                                                                                                                                                                      HUMAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; D26311; BAA05373.1; -. HSSP; P25687; IIMT.
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54.4%;
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ein-4 precursor (Dkk-4)
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DKK-TYPE CYS-1.
N-LINKED (GLCNAC. ..)
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POTENTIAL.
DICKKOPF RELATED PROTEIN-3.
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Dickkopf related

protein-4

(Dickkopf-4) (hDkk-4).

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Query Match
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Matches 57
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MEDLINE=20035735; PubMed=10570958;

Krupnik V.E., Sharp J.D., Jiang C., Robison K., Chickering T.W.,

Amaravadi L., Brown D.E., Guyot D., Mays G., Leiby K., Chang B.,

Duong T., Goodearl A.D.J., Gearing D.P., Sokol S.Y., McCarthy S.

"Functional and structural diversity of the human Dickkopf gene
                                                                                                                                                                                                                                                                                     CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                 GO; GO:0030178; P:negative regulation of Wnt receptor InterPro; IRR006796; dickhopf N.
InterPro; IRR006796; dickhopf N.
Pfan; PF04706; dickhopf N; 1.
Developmental protein; Signal; Wnt signaling pathway.
SIGNAL 1 19 B DICKKOPF RELATED PROTEIN CHAIN 134 224 DICKKOPF RELATED PROTEIN DOMAIN 41 90 DKK-TYPE CYS-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBI; AF177397; AAF02677.1; -.
EMBI; AB018005; BAA33475.1; -.
EMBI; AB018003; BAA33475.1; JO:
EMBI; AB018004; BAA33475.1; JO:
EMBI; AB018004; BAA33475.1; JO:
EMBI; AB017788; BAA33438.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the European Bioinformatics Institute. There are no rest
use by non-profit institutions as content
modified and this statement is not removed. Usage by an
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or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tate G., Mitsuya T.; "Human Dickkopf as well as DAN family members, Cerberus and Gremlin, "Human Dickkopf as well as DAN family members, Cerberus and Gremlin, are preferentially expressed in the epithelial malignant cell lines."; J. Biochem. Mol. Biol. Biophys. 3:239-242(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
Tate G., Suzuki T.,
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- PTM: APPEARS NOT T
- PTM: CAN ALSO BE I
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mitted (SEP-1998) to the EMBL/GenBank/DDBJ day
FUNCTION: INHIBITOR OF WAT SIGNALING PATHWAY.
SUBCELLULAR LOCATION: Secreted.
TISSUE SPECIFICITY: EVAPORATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SIMILARITY: BELONGS TO THE DICKKOPF FAMILY.
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                                          AMCCPGTLCVNDVCTTMEDATPILERQLDEQDGTHAEGTTGHPVQENQPKRKPSIKKSQG
                                                                                                                         GALVLDFNNIRSSADLHGARKGSQCLSDTDCNTRKFCLQPRDEKPFCATCRGLRRRCQRD
TRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGELC---
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224 D
90 D
218 D
218 D
24875 MW;
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Primates;
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                                                                                                                                                                                                                                                                                     DICKKOPF RELATED PROTEIN-4.
DICKKOPF RELATED PROTEIN-4
DKK-TYPE CYS-1.
DKK-TYPE CYS-2.
DKK-TYPE CYS-2.
M -> L (IN REF. 3).
M -> L (ST8EBC476961357 CRC64;
                                                                                                                                                                                                       21;
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                                                                                                                                                                                                     Score 214.5; I
Pred. No. 1.2e
21; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                       RELATED PROTEIN-4
RELATED PROTEIN-4
                                                                                                                                                                                                     1.2e-08;
ches 72;
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WEDLINE-22388257; PubMed=12477932;

XX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

XA Strausberg R.L., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

XA Altschnel S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

XA Altschnel S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

XA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

XA Lischnel S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

XA Lischnel S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

XA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

XA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

XA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

XA Raha S.S., Mogwan P.J., McKernan K.J., Abramson R.D., Mullahy S.J.,

XA Rahas S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

XA Rahas S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

XA Rahay J., Helton E., Ketteman M., Malek J.A., Gibbs R.A.,

XA Pahey J., Haddan A., Young A.C., Shevchenko Y., Bouffard G.G.,

XA Mhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

XA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

XA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,

XA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LT 5
HUMAN
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16-OCT-2001 (Rel. 40, Last
15-SEP-2003 (Rel. 42, Last
Dickkopf related protein-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.

MEDLINS=20422487; PubMed=10965128;

Roessler E., Du Y., Glinka A., Dutra A., N

"The genomic structure, chromosome locatic

DKX1 head inducer gene as a candidate for

Cytogenet. Cell Genet. 89:220-224(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
Tate G., Suzuki T., Mitsuya
Submitted (NOV-1998) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=20035735; PubMed=10570958;
Krupnik V.E., Sharp J.D., Jiang C., Robison K., Chickering T. K
Krupnik V.E., Sharp J.D., Jiang C., Robison K., Chickering T. K
Amaravadi I., Brown D.E., Guyot D., Mays G., Leiby K., Chang I
Duong T., Goodearl A.D.J., Gearing D.P., Sokol S.Y., McCarthy
"Functional and structural diversity of the human Dickkopf ger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bottaro D.P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Leiomyosarcoma;
MEDLINE=99315900; PubM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        094907;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Fedi P., Bafico A., Nieto Soria A., Burgess Bottaro D.P., Kraus M.H., Aaronson S.A.; "Isolation and biochemical characterization homologue, a novel inhibitor of mammalian Wr J. Biol. Chem. 274:19465-19472(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (Human).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Jene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                137
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Nieto Soria A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chordata;
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precursor (Dkk-1)
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EMBL/GenBank/DDBJ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ra A., Niehrs C., Muenke M.; location, and analysis of the ate for holoprosencephaly.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Burgess W.H.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
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Best Local
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EMBL; AF17394; AAF02674.1; --
EMBL; AB020315; BAA34651.1; --
EMBL; AB020314; BAA34651.1; JOINED.
EMBL; AF061158; AAG15544.1; --
EMBL; AF261157; AAG15544.1; JOINED.
EMBL; BC001539; AAH01539.1; --
                                                                                                                                                                                     DKK1 MOUSE
054908;
16-0CT-2001
16-0CT-2001
15-SEP-2003
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CARBOHYD
SEQUENCE
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use by non-profit institutions as long as its content
modified and this statement is not removed. Usage by ar
entities requires a license agreement (See http://www.isb-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human and mouse cDNA sequences.";

Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
-:- FUNCTION: INHIBITOR OF WNT SIGNALING PATHWAY.
-:- SUBCELLULAR LOCATION: Secreted.
-:- TISSUE SPECIFICITY: PLACENTA.
-:- SIMILARITY: BELONGS TO THE DICKKOPF FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN
                                                                    Mus musculus (Mouse
Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR006796; dickkopf_N.
Pf4mm, PF04706; dickkopf_N; 1.
Developmental protein, Signal, Wnt signaling pathway; Glycoprotein.
SIGNAL 1 19 POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MIM; 605189; -.
GO; GO:0008083; F:growth
GO; GO:0004071; F:signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                               MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Genew;
     SEQUENCE
                              NCBI_TaxID=10090;
                                                                                                                                                                   Dickkopf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DOMAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                001 (Rel. 40, Created)
001 (Rel. 40, Last sequence update)
003 (Rel. 42, Last annotation updat
related protein-1 precursor (Dkk-1
     FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HECIIDEDCGPSMYCQF-----ASFQYTCQPCRGQRMLCTRDSECCGDQLCVWGHC---
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A--RHFWSKICKPVLKEGQVCTKHRKGSHGLEI--
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            -QPHSHSLVYVCK 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                       (Mouse)
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                                                                                                                                                                                                                                                                                        STANDARD;
                                                                          Rodentia;
                                                                                           Chordata;
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25.6<del>8</del>;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28671 MW;
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transducer activity; TAS.
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POTENTIAL.

DICKCOPF RELATED PROTEIN-1.

DKK-TYPE CYS-1.

DKK-TYPE CYS-2.

N-LINKED (GLCNAC. . .) (POT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. 1.1e
3; Mismatches
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                                                                          Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                                                                   n update)
(Dkk-1)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                266;
                                                                                                                                                                     (mDkk-1)
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                                                                            Mus
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Best Local S
Matches .59
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16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Dickkopf related protein-2 precursor (Dkk-2)
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HSSP; P25687; 11MT.
HSSP; P25687; 11MT.
MGD; MGI:1329040; Dkkl.
InterPro; IPR006796; dickkopf N.
Pfam; PF04706; dickkopf N; 1.
Developmental protein; Signal; Wnt signaling pathway; Glycoprotein.
SIGNAL 1 31
POTENTIAL.
CHAIN 32 272
DOMAIN 32 272
DOMAIN 86 141
DOMAIN 195 269
CARBOHYD 262 262
N-LINKED (GLCNAC. . .) (POTENTIAL).
SEQUENCE 272 AA; 29268 MW; AB9FA35DFA57D3EE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the European Bioinformatics Institute. There are no restricting use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and for entitles requires a license agreement (See http://www.isb-sib.c. or send an email to license@isb-sib.ch).
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-I- FUNCTION: INHIBITOR OF WNT SIGNALING PATHWAY.
TISSUE=Fetal lung;
MEDLINE=20035735; PubMed=10570958;
Krupnik V.E., Sharp J.D., Jiang C.,
                                                                                                                                                                                                                                                                                                                                                                                                           HUMAN
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                                              SEQUENCE FROM N.A. TISSUE=Fetal lung;
                                                                                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                      DKK2
                                                                                                                    NCBI_TaxID=9606;
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                                                                                                                            s (Human).
Metazoa; Chordata; C
~heria; Primates; (
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22.3%;
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                                                                                                                                                                                                                                                            (Dickkopf-2) (hDkk-2)
     Chickering
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MBL outstation -
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Matches 50
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Genew; HGNC:2892; DKK2.

MIM; 605415; -.

GO; GO:0005615; C:extracellular space; TAS.

InterPro; IPR006796; dickkopf_N.

Pfam; PF04706; dickkopf N; 1.

Pfam; PF04706; dickkopf N; 1.

POTENTIAL.
DKK2 MOUSE

OPQYZ8;

16-OCT-2001

16-OCT-2001

15-SEP-2003
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Duong T.,
                                                                                                                                                                                                                                                                                                         DOMAIN
DOMAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Amaravadi L., Brown D.E., Guyot D., Mays G., Leiby K., Chang B.,
Duong T., Goodearl A.D.J., Gearing D.P., Sokol S.Y., McCarthy S.,
Functional and structural diversity of the human Dickkopf gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             e.e.g., Suzuki T., Mitsuya T.;
mitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.
FUNCTION: INHIBITOR OF WNT SIGNALING PATHWAY (POTENTIAL)
SUBCELLULAR LOCATION: Secreted.
TISSUE SPECIFICITY: EXPRESSED IN HEART, BRAIN. SKET.FTDAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PTM: MAY BE PROTEOLYTICALLY PROCESSED BY A FURIN-LIKE PROTEASE. SIMILARITY: BELONGS TO THE DICKKOPF FAMILY.
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AB033208; BAA85465.1; -.
AB035181; BAA87056.1; -
AB035180; BAA87056.1; JOINED.
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                                                                                                                                                                                                                                              Similarity 50; Conserv
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                                                                                                                                                                                        CVWGHC---
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                                                                                                                                                                                                                          GDEEGR---RSHEÇIIDEDCGPSMYC----QFASFQYTCQPCRGQRMLCTRDSECCGDQL
                                                                                       RCDCAKGLSCKVWKDATYSSKARLHVCQ
                                                                                                      RCPCASGLICQP-----HSLVYVCK 285
                                                                                                                             PCLRSSDCIEGFCCA--RHFWTKICKPVLHQGEVCTKQRKKGSHGLEI
                                                                                                                                               ICDNORDCOPGLCCAFORGLLFPVCTPLPVEGELC---HDPASRLLDLITWELEPDGALD
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llarity 24.0%;
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the EMBL/GenBank/DDBJ
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DKK-TYPE CYS-2.
N-LINKED (GLCNAC. .
W; 39DDA3FA8975E87F CI
                                                                                                                                                                                                                                             Score 162; DB 1; I
Pred. No. 8:3e-05;
4; Mismatches 60;
                                                                                                                                                                                                                                                                                                                           POTENTIAL.
DICKKOPF RELATED PROTEIN-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7.
          update)
                                       259
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There are no restrictions
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Query Match
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Matches 49
Eukaryota; Metazoa; C
Mammalia; Eutheria; P
NCBI_TaxID=9606;
[1]
                                                                                                                 Q9UK85;
16-OCT-2001
16-OCT-2001
15-SEP-2003
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CARBOHYD
SEQUENCE
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                   HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=99425169; PubMed=10495270; Monaghan P.A., Kioschis P., Wu W.,
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-1- PTM: MAY BE PROTEOLYTICALLY PROCESSED BY A
-1- SIMILARITY: BELONGS TO THE DICKKOPF FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mech.
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                                                                                                                                                                                    SGY1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Dickkopf genes are co-ordinately expressed in Wech. Dev. 87:45-56(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
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Pfam; PF04706; dickkopf N; 1.
Pevelopmental protein; Signal; Wnt signaling
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                                                                   Homo sapiens (Human)
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49; Conserv
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                                                              GDEEGR---RSHECIIDEDCGPSMYC----QFASFQYTCQPCRGQRMLCTRDSECCGDQL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GSKKGKSLGQAYPCSSDKECEVGRYCHSPHQGSS---ACMLCRRKKKRCHRDGMCCPGTR
                                                                                                                                                                                                                                                                    RCDCAKGLSCKVWKDATYSSKARLHVCQ
                                                                                                                                                                                                                                                                                                  RCPCASGLLCQP----HSHSLVYVCK 285
                                                                                                                                                                                                                                                                                                                                  PCLRSSDCIDGFCCA--KHFWTKICKPVLHQGEVCTKQRKKGSHGLEI--
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259
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                                                                                                                                                                                    STANDARD;
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127
256
52
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                                     Chordata;
Primates;
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%; Pred. No. 0.000
24; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MW.
                                                                                                   sequence update)
annotation update)
(SGY-1).
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DKK-TYPE CYS-1.
DKK-TYPE CYS-2.
N-LINKED (GLCNAC. .
W; EAAB76F2D2C9780D C
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                                     Craniata; Vertebrata;
Catarrhini; Hominidae
                                                                                                                                                                                    PRT;
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).00031;
hes 61;
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                                       Hominidae;
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                                                      Euteleostomi;
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RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Welman J.J., McKernan K.J., Abramson R.D., Mullahy S.J.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

RA Mhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

RA Botherch A., Schein J.E., Jones S.J.M., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length

"Inman and mouse cDNA sequences.",

Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                     Query Match
Best Local S
Matches 37
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CARBOHYD
SEQUENCE
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MEDLIND=20035735; PubMed=10570958;

Krupnik V.E., Sharp J.D., Jiang C., Robison K., Chickering T.W.,

Amarawadi L., Brown D.E., Guyot D., Mays G., Leiby K., Chang B.,

Duong T., Goodearl A.D.J., Gearing D.P., Sokol S.Y., McCarthy S.A.,

"Functional and structural diversity of the human Dickkopf gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 between the Swiss Institute of Bioinformatics and the EMBI outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GO; GO:0005615; C:extracellular space; TAS.
GO; GO:0004871; F:signal transducer activity;
GO; GO:0007345; P:embryogenesis and morphogene
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AB047818; BAB12400.1;
AB047816; BAB12400.1;
AB047817; BAB12400.1;
AB047817; BAB12400.1;
BC030581; AAH30581.1;
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                                                                                                                                                                                         Similarity
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HKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITNNO 122
                                                                                                                           LLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED-----TQ
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nilarity 26.6%;
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27007 MW;
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                                                                                                                                                                                            31;
                                                                                                                                                                                                                                                                                                                                               POTENTIAL.
SOGGY-1 PROTEIN.
N-LINKED (GLCNAC
N-LINKED (GLCNAC
                                                                                                                                                                                     Score 145; DB 1;
Pred. No. 0.0013;
1; Mismatches 4
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                                                                                                                                                                                                                                                      Length 242;
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                                                                                                                                                                                                                                                                                                                 entities requires, a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN=Hartley;
MEDLINE=90307659;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cavia porcellus (Guinea pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Hystricognathi; Caviidae; Cavia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-NOV-1990 (Rel. 16,
01-NOV-1990 (Rel. 16,
28-FEB-2003 (Rel. 41,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAVPO
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                                                                                                                                                                                    InterPro; IPR006209; EGF_like.
InterPro; IPR002369; Integrin_B.
InterPro; IPR002369; Integrin_beta_C.
Pfam; PF00362; integrin_B; 1.
PRINTS; PR01186; INTEGRINB.
ProDom; PD01811; Integrin_B; 1.
SMART; SM00187; INB; 1.
                                                                                                                                                                                                                                                                              EMBL; M35197; AAA37043.1; -.
EMBL; A26611; CAA01833.1; -.
PIR; B37057; B37057.
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                                                                                                                                       PS00022; EGF_1; UNKNOWN_2.
PS01186; EGF_2; UNKNOWN_1.
; Cell adhesion; Receptor;
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                                                                                                                                                                           PS00243; INTEGRIN_BETA;
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BY SIMILARITY
                                                                    VWFA-LIKE.
4 CYSTEINE-RICH
                                                                                             POTENTIAL.
                                                                                                       EXTRACELLULAR
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                                                                       TANDEM REPEATS
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SUBUNIT. BETA-6
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CARBOHYD
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01-APR-1988 (Rel. 07, Created)
01-APR-1988 (Rel. 07, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Vitamin K-dependent protein S precursor.
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SEQUENCE FROM N.A.
MEDLINE=87092407; PubMed=3467362;
Provins J., Norman D.K., Beckmann of Particular of Particular Province of Partic
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Pred. No. 0.01
22; Mismatches
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                                                            84:349-353 (1987)
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RX MEDLINE-2238257; PubMed=12477932;
RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Altschal S.F., Zeeberg B., Buecow K.H., Schaefer C.F., Bhat N.K.,
RA Altschal S.F., Zeeberg B., Buecow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heich F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heich F.,
RA Biatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Brownstein M.J., Usdin T.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Casrninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Wullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Hichards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Hillon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Hillon D.K., Touchman J.W., Green E.D., Dickson M.C.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
"Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences."

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                                                                                                                                                                                                                                                             Bertina R.M.,
Coenen J., Lee
Reitsma P.H.;
                                                                                                                                                                                                                                                                                                                                                             Lundwall A., Dackows....
Stenflo J., Wydro R.;
Stenflo J., Wydro R.;
"Isolation and sequence of the
of blood coagulation.";
of blood coagulation.";
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VARIANT TOKUSHIMA GLU-196.
MEDLINE=94129009; PubMed=8298131;
Hayashi T., Nishioka J., Shigekiyo T., Saito S., Suzuki K.;
"Protein S Tokushima: abnormal molecule with a substitution
for Lys-155 in the second epidermal growth factor-like domai
protein S.";
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MEDLINE=91084444; PubMed=2148110;
MCDLINE=91084444; PubMed=2148110;
Schmidel D.K., Tatro A.V., Phelps L.
"Organization of the human protein S
Biochemistry 29:7845-7852(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Human protein S cDNA encodes Phe-16 sequences for the post-translational FEBS Lett. 222:186-190(1987).
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                                                                                                                Unpublished
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                                                                                                                                                                     VARIANT PROS
                                                                                                                                                                                                        Blood
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Bertina R.M., Ploos
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Leemhuis M.P.,
                                                                                                                                   observations (SEP-1993).
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Dackowski W., Cohen
                                                                                                                                                                       DEFICIENCY
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                                                                                                                                                                                                                                                                               PubMed=2143091;
os van Amstel H.K., van Wijn
is M.P., Deutz-Terlouw P.P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sci.
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ion and silencing during prim
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P.P., van der Linden
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InterPro; IPR000152; Asx hydroxyl.
InterPro; IPR001881; EGF_Ca.
InterPro; IPR006209; EGF like.
InterPro; IPR001791; Laminin_G.
InterPro; IPR000294; VitK_dep_GLA.
Pfam; PF00008; EGF; 4.
Pfam; PF000594; gla; 1.
                                                                                                                                         EMBL; BCU1500
PIR; A35610;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      between the Swiss Institute of Bioinformatics and the E
the European Bioinformatics Institute. There are no rest
use by non-profit institutions as long as its content
modified and this statement is not removed. Usage by ar
entities requires a license agreement (See http://www.isb-
or send an email to license@isb-sib.ch).
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                                                                                      88;
MIM;
                                                                                                                                                                                                                                                          EMBL;
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Hum. Mutat. 14:30-39(1999)
                                                                                                                        HSSP; P00740; 1CFH
Genew; HGNC:9456; 1
                                                                                                                                                                                               EMBL;
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DISBASE: DEFECTS IN PROS1 ARE ASSOCIATED WITH:
DEVELOP THROMBOTIC DISBASE (THROMBOPHILIA).

SIMILARITY: Contains 2 laminin G-like domains.

SIMILARITY: Contains 4 EGF-like domains.
                                                                           ; 176880; -. GO:0004866; F:endopeptidase inhibitor activity; GO:0007596; P:blood coagulation; TAS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PUNCTION: ANTICOACULANT PLASMA PROTEIN; IT IS A COPACTOR TO ACTIVATED PROTEIN C IN THE DEGRADATION OF COAGULATION FACTORS AND VIIIA. IT HELPS TO PREVENT COAGULATION AND STIMULATING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUBCELLULAR LOCATION:
                                                                                                                                                                                 M36564; AAA60180.1
M36551; AAA60180.1
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M57848;
M57849;
M57850;
M57851;
M57852;
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Y00692; CAA68687.1;
Y00692; CAA68688.1;
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TTB6_HUMAN STANDARD; PRT; 7 P18564; Q16500; 01-NOV-1990 (Rel. 16, Created) 16-OCT-2001 (Rel. 40, Last sequence up 15-SEP-2003 (Rel. 42, Last annotation

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Integrin beta-6 precursor.

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PROSITE; PS01022; EGF 1; 1.
PROSITE; PS01186; EGF 2; 3.
PROSITE; PS01187; EGF CA; 3.
PROSITE; PS0011; GLU_CARBOXYLATION;
PROSITE; PS0025; LAM G_DOMAIN; 2.
Plasma; Gamma-carboxyglutamic acid; C
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SMART;
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EGF-like domain;
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                                                         LLCOPHSHSLVYVC--KPTFVGSRDQDG----BILLPREVPDBYEV
                                                                                                                                    CRGQRMLCTRDSECCGDQLCVWGHCTKMA--TRGS----NG-TICDNQRDC-----
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                                       -LCVNYPGGYTCYCDGKKGFKLAODOKSCEVVSVCLPLNLDTKYEL
                                                                              LKPSICGT---
                                                                                              WQGEK--CEFDINECKDPSNINGGCSQICDNTPGSYHCSCKNGFVMLSNKKDCKDVDECS
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EGF_1; 1
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Hydroxylation; Glycoprotein; Signal; Repeat;
plymorphism; Disease mutation; Thrombophilia.
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EGF-LIKE 1.
EGF-LIKE 2, CALCIUM
EGF-LIKE 3, CALCIUM
EGF-LIKE 4, CALCIUM
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Pred. No. 0.039;
3; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                           LAMININ G-LIKE 1.
LAMININ G-LIKE 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VITAMIN K-DEPENDENT
                                                                                                                                                                                            ----FENDPETD-----YFYPKYLVCLRS
                                                                                                                                                                                                                                                                                                                                                                                                                              CALCIUM-BINDING CALCIUM-BINDING CALCIUM-BINDING
                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                         129;
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                                                                                                                                                                                                                                                                                          Length
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(POTENTIAL).
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MIM; 147558; -.

GO; GO:0008305; C:integrin complex; TAS
GO; GO:0004895; F:cell adhesion recepto
InterPro; IPR002309; EGF_like.
InterPro; IPR002369; Integrin_B.
InterPro; IPR002169; Integrin_B.
InterPro; IPR0023035; VMF A.
Pfam; PF00362; integrin_B; 1.
PRINTS; PR01186; INTEGRINB.
PRODOM; PD00181; INTEGRINB.
PRODOM; PD00181; INTEGRINB.
PRODOM; PD00187; INB; 1.
SMART; SM00187; INB; 1.
SMART; SM00187; VWA; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (Human)
Eukaryota; Metazoa; (
Mammalia; Eutheria; I
NCBI TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Pancreas;

MEDIAIRE=90307659; PubMed=2365683;

Sheppard D., Rozzo C., Starr L., Quaranta V., Erle D.J., Pytela Sheppard D., Rozzo C., Starr L., Quaranta V., Erle D.J., Pytela "Complete amino acid sequence of a novel integrin beta subunit ("Complet
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                                                                                                                                                                                                        Repeat;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "The gene organization of the human
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REVISIONS TO 18-24; 158; 642 AND 719
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; M35198; AAA36122.2;
SMBL; A26609; CAA01832.1;
EMBL; S49380; AAB23690.1;
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                                                                                                                                                                                                          Integrin; cc
| Cat; Signal;
                                                                                                                                                                                                                                                PROSITE; PS00243; INTEGRIN BETA; 3.
PROSITE; PS00022; EGF_1; UNKNOWN 2.
PROSITE; PS01186; EGF_2; UNKNOWN 1.
Integrin; Cell adhesion; Receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genew; HGNC:6161; ITGB6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PIR; A37057; A37057.
PDB; 1LH9; 15-MAY-02
                                                                                                                                                                               CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Biol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pe gene organization of the human beta 7 subunit, the common beta nunit of the leukocyte integrins HML-1 and LPAM-1.";

Immunol. 4:1031-1040(1992).

FUNCTION: INTEGRIN ALPHA-V/BETA-6 IS A RECEPTOR FOR FIBRONECTIN AND CYTOTACTIN. IT RECOGNIZES THE SEQUENCE R-G-D IT ITS LIGANDS. SUBUNIT: HETERODINER OF AN ALPHA AND A BETA SUBUNIT. BETA-6 ASSOCIATIES WITH ALPHA-V.

SUBCELLULAR ICCATION: Type I membrane protein.

SIMILARITY: BELONGS TO THE INTEGRIN BETA CHAIN FAMILY.

SIMILARITY: Contains 2 VWFA-like domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chem. 265:11502-11507(1990)
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                                                                              INTEGRIN BETA-6.
EXTRACELLULAR (POTENTIAL
POTENTIAL.
CYTOPLASMIC (POTENTIAL).
VWFA-LIKE.
                                                                                                                                                               POTENTIAL.
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                                                      CYSTEINE-RICH TANDEM REPEATS
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                                                                                                                                                                                                                                                              Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   E., Choo K.H.,
                                                                                                                                                          (POTENTIAL)
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                                        ITTDNEGKTII 694
                                                                                                                                                                                                                                                                                   G-----HCIKMATR--GSNGTICDNORDCOPGLICCAFORGLLFPVCTFLPVBGELCHDF
                                                                                                                                                                                                                                                                                                                                    SGRGDCYCGQCICHL8PYGNIYGPYCQCDNF--SC--VRHKGLLCGGNGDCDCGECVCRS
                                                                                                                                                                                                                                                                                                                                                                                                                                             CNCDCQKEVEVNSSKCHHGNGSFQCGVCACHPGHMGPRCECGEDMLSTDSCKEAPDHPSC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AICNNGTLFQHQKKCSHMKVGDTASFSVTVNIPHCERRSRHIIIKPVGLGDALELLVSPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ----NLPPSYHNETNTDTKVGN-----NTIHVHREIHKITNNQTG----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QEEATLNEMFRE-----VEELMEDTQHKLR---SAVEEMEAE-EAAAKASSE-VNLA--
                                                                                                                                    CNSKRSCIECHLSAAGOAREECVDKCKLAGATISEEEDFSKDGSVSCSLQGENECLITFL
                                                                                                                                                                                     ASRLIDLITWELEPDG-----ALDRCPCASGLLCQPHSHSL------VYVCKPTFV
                                                                                      GSRDQDGEILL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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20.5%;
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BY SIMILARITY.

BY SIMILA
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BDB7D533EC4C8C4D (
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.12;
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                                                                                                                                                                                                                                                     -CGDP
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RESULT
LTBS_HU
    NPERACTION WITH FIBRILLIN.

Noted=12429738;

Na Isogai Z., Ono R.N., Ushiro S., Keene D.R., Chen Y., Mazzieri R.,

RA Charbonneau N.L., Reinhardt D.P., Rifkin D.B., Sakai L.Y.;

RA Charbonneau N.L., Reinhardt D.P., Rifkin D.B., Sakai L.Y.;

RA Charbonneau N.L., Reinhardt D.P., Rifkin D.B., Sakai L.Y.;

RA Charbonneau N.L., Reinhardt D.P., Rifkin D.B., Sakai L.Y.;

RA Charbonneau N.L., Reinhardt D.P., Rifkin D.B., Sakai L.Y.;

RA Charbonneau N.L., Reinhardt D.P., Sakai L.Y.;

RA Charbonneau N.L., Reinhardt D.P., Sakai L.Y.;

RI J. Biol. Chem. 278.2750/2003.

C. -!- SUBUNIT: The large latent complex of TGF-betal from platelets is composed of the TGF-betal molecule noncovalently associated with a composed of the TGF-betal molecule noncovalently associated with a composed of the TGF-betal precursor and a third component denoted TGF-betal-Betal-BP does not bind directly to active TGF-BETAl.

C. -!- SUBCELLULAR LOCATION: Secreted.

-!- SUBCELLULAR LOCATION: Secreted.

-!- SUBCELLULAR FOODUCTS:

C. -!- SUBCELLULAR FOODUCTS:

REC Name-Foor;

IsoId=P22064-1; Sequence=Displayed;
                                                         EMBL; M34057; AAA61160.1; -.
EMBL; AF489528; AAM03124.1; -.
PIR; A35626; A35626.
HSSP; P00750; 1TPG.
GlycoSuiteDB; P22064; -.
Genew; HGNC:6714; LTBP1.
  Genew; HGNC:6714
MIM; 150390; -.
InterPro; IPR000
InterPro; IPR000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TLTBS HUMAN STANDARD; PRT; 1394 AA. P22064; Q8TD95; 01-AUG-1991 (Rel. 19, Created) 01-AUG-1991 (Rel. 19, Last sequence update) 15-SEP-2003 (Rel. 42, Last annotation update) Latent transforming growth factor beta binding precursor (LTBP-1) (Transforming growth factor 1) (TGF-beta1-BP-1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.

Kwak J.H., Shin K.Y., Kim S.I.;

Kwak J.H., Shin K.Y., Kim S.I.;

"Major alternative spliced-form of LTBPl mRNA in human glomerular endothelial cell.",
endothelial cell.",
Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.

TISSUB-Fibroblast, and Platelet;

MEDLINE-90275601; PubMed-2350783;

Kanzaki T., Olofsson A., Moren A., Wernstedt C., Hellman U.,

Miyazono K., Claesson-Welsh L., Heldin C.-H.;

"TGF-beta 1 binding protein: a component of the large latent complex
of TGF-beta 1 with multiple repeat sequences.";

Cell 61:1051-1061(1990).
                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a between the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is use by non-profit institutions as long usits content is modified and this statement is not removed. Usage by and fo entitles requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                           IsoId=Q14766-1; Sequence=External; PTM: CONTAINS HYDROXYLATED ASPARAGINE RESIDUES PTM: The N. terminus is blocked.
SIMILARITY: Contains 16 EGF-like domains.
IPR000152; Asx_hydroxyl.
IPR001881; EGF_Ca.
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; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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beta-1 binding protein
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                                                                                                                                                                                                                                                                                                    outstation
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InterPro; IPR006209; BGF like.
InterPro; IPR002212; Fibril-assoc.
Pfam; PF000008; EGF; 15.
Pfam; PF00008; TB; 4.
SMART; SM00179; EGF CA; 13.
PROSITE; PS00010; ASX HYDROXYL; 13.
PROSITE; PS00022; EGF 1; 2.
PROSITE; PS01186; EGF CA; 15.
PROSITE; PS01186; EGF CA; 15.
PROSITE; PS01186; EGF CA; 15.
PROSITE; PS01187; EGF CA; 15.
PROSITE; PS
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ive splicing
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EGF-LIKE
BY SIMILARITY
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ENT SITE (POTENTIAL)
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Best Local S
Matches 90
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Q14766;
28-FEB-2003 (Rel. 41,
28-FEB-2003 (Rel. 42,
15-SEP-2003 (Rel. 42,
Latent transforming g
precursor (LTBP-1)
1) (TGF-beta1-BP-1).
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   Eukaryota; Metazoa; (
Mammalia; Eutheria; )
NCBI_TaxID=9606;
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CONFLICT
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CARBOHYD
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                                                                                                             (Rel. 41, Created)
(Rel. 41, Last sequence update)
(Rel. 42, Last annotation update)
sforming growth factor beta binding
LTBP-1) (Transforming growth factor
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                                                                     (Human)
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                                                                                                                                                                                                                      STANDARD;
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Primates;
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Pred. No. 0.22;
37; Mismatches
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BY
                                     Craniata; V
Catarrhini;
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                                                                                                                                                                                                                                                                                                                                      -MEEVRQELEDLE
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                                     Vertebrata;
i; Hominidae;
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beta-1 binding protein
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                                                      Euteleostomi;
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pfam; process; EGF; 15.
pfam; process; TS; 4.
pfam; process; TS; 4.
smarr; smool79; EGF CA; 13.
prosite; psool0; ASX HydroxyL; 1:
prosite; psool22; EGF 1; 2.
prosite; psoil87; EGF CA; 15.
prosite; psoil87; EGF CA; 15.
growth factor binding; Repeat; EGI
Glycoprotein; Alternative splicing
SIGNAL 24 1595
ETND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kanzaki T., Olofsson A., Moren A., Wernstedt C., Miyazono K., Claesson-Welsh L., Heldin C.-H.; "TGF-beta 1 binding protein: a component of the of TGF-beta 1 with multiple repeat sequences."; Cell 61:1051-1061(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; L48925; AAA96327.1; -.
EMBL; M34057; AAA61160.1; ALT_INIT
HSSP; P08709; 1BF9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collab
between the Swiss Institute of Bioinformatics and the EMBL outst
the European Bioinformatics Institute. There are no restrictions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isogai Z., Ono R.N., Ushiro S., Keene D.R., Chen Y., Mazz Charbonneau N.L., Reinhardt D.P., Rifkin D.B., Sakai L.Y. "Latent transforming growth factor beta-binding protein I with fibrillin and is a microfibril-associated protein.", J. Biol. Chem. 278:2750-2757(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PubMed=12429738;
Isogai Z., Ono F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Fibroblast, and Platelet;
MEDLINE=90275601; PubMed=2350783;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   extracellular matrix.";
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Olofsson A., Ichi:
                                                                                                                                                                                                                                                                                    GO; GO:0005578; C:extracellular matrix; GO; GO:0005024; F:transforming growth fa InterPro; IPR000152; Asx Mydroxyl. InterPro; IPR001881; EGF Ca. InterPro; IPR006209; EGF like. InterPro; IPR002212; Fibril-assoc.
                                                                                                                                                                                                                                                                                                                                                                                                                                         MIM;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE=Blood
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SUBUNIT: The large latent complex of TGF-betal from platelets is composed of the TGF-betal molecule noncovalently associated with disulfide-bonded complex of a dimer of the N-terminal propeptide of the TGF-betal precursor and a third component denoted TGF-betal-BP does not bind directly to active TGF-BETAL Binds to fibrillin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IsoId=P22064-1; Sequence=External; TISSUB SPECIFICITY: The long isoform is found i PTM: CONTAINS HYDROXYLATED ASPARGINE RESIDUES SIMILARITY: Contains 16 EGF-like domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUBCELLULAR LOCATION: Secreted ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Name≈Long;
IsoId=Q14766-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Name=Short
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Event=Alternative splicing; Named isoforms=2;
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jo H., Moren A.,
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splicing.
POTENTIAL.
POTENTIAL.
LATENT TRANSFORMING GROWTH FACTOR
BINDING PROTEIN, ISOFORM 1L.
                                                                                             EGF-like
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                                                                                                domain;
                                                                                             Hydroxylation;
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(BY SIMILARITY).
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Best Local
                                                           This SWISS-PROT entry is copyright. It is produced through a collab-
between the Swiss Institute of Bioinformatics and the EMBL outst
the European Bioinformatics Institute. There are no restrictions
use by non-profit institutions as long as its content is in
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or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.

MEDLINE=20035735; PubMed=10570958;

Krupnik V.E., Sharp J.D., Jiang C., Robison K., Chickering T.F.

Krupnik V.E., Sharp J.D., Guyot D., Mays G., Leiby K., Chang E

Amaravadi L., Brown D.E., Guyot D., Mays G., Leiby K., Chang E

Duong T., Goodearl A.D.J., Gearing D.P., Sokol S.Y., McCarthy

"Functional and structural diversity of the human Dickkopf ger
                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia; NCBI TaxID=10090;
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16-OCT-2001 (Rel. 40, Last sequence up
16-OCT-2001 (Rel. 40, Last annotation
Soggy-1 protein precursor (SGY-1).
   Signal;
                    EMBL; AF177399; AAF02679.1; MGD; MGI:1354963; SGY1.
                                                                                                                                                                                                                                              Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus
                                                                                                                                                                                                                                                            family
                                                                                                                                                                                           e 238:301-313(1999).
SUBCELLULAR LOCATION: Secreted.
TISSUE SPECIFICITY: Expressed in testis.
SIMILARITY: TO THE N-TERMINAL SECTION OF DKK-3.
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37; Mismatches
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Sciurognathi; Muridae; Murinae; Mus
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Search completed: Job time : 29 secs	98 1	117 1	61 1	57 1	1 P	μ - 7	Query Match Best Local Similarity Matches 38; Conser	SIGNAL CHAIN CARBOHYD CARBOHYD CARBOHYD SEQUENCE
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ary 20, 20	KVTDNQTGEVHISEKVEASIEPE 120	KITNNOTGOMVFSETVITSVGDE		RSAVEEMEAI	LPLAFVSSS	ZLLLA	96.96	20 P 230 S 31 N 87 N 102 N
Search completed: February 20, 2004, 18:49:40 Job time : 29 secs	SIEPE 120	SVGDE 139	FFSPMDFRDLFRNFHQEENQEHRMGNHTLSSHLQID 97	- ET-V	MCRLRVLLLLELAFVSSSALFIHDVDSQQNTSGFLGLQRLLQSFSRLFLKNDLLRDLDN 60	M	; Score 125.5; DB 1; Length 230; ; Pred. No. 0.031; 25; Mismatches 53; Indels 27; Gaps	POTENTIAL. SOGGY-1 PROTEIN. N-LINKED (GLCNAC) (POTENTIAL). N-LINKED (GLCNAC) (POTENTIAL). N-LINKED (GLCNAC) (POTENTIAL). N-LINKED (GLCNAC) (POTENTIAL).
			97	116	60	56	22	-

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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N Geneseq 19Jun03:*

1: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
2: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*
3: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1982.DAT:*
4: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1983.DAT:*
5: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1985.DAT:*
6: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1985.DAT:*
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12: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1991.DAT:*
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24: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA20001.DAT:*
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10176.016 Million cell updates/sec
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES	

Result		Query	Query	3	;	
- 2	Score	Match	Length	BB	ij	Description
р (2586	100.0	2586	20	AAX52255	Protein PRO295 cDN
2	2586	100.0	2586	22	AAF92061	Human PRO295 cDNA.
ω	2586	100.0	2586	22	AAF72413	Human PRO295 cDNA.
4	2586	100.0	2586	24	ABS74381	Human cDNA encodir
v	2586	100.0	2586	24	ABL95585	Human angiogenesis
σ	2586	100.0	2586	24	ABL88096	Human PRO295 cDNA
7	2586	100.0	2586	25	ACA55002	Novel human secret
ထ	2586	100.0	2586	N Ui	ACA58487	cDNA encoding huma

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CC cobrained from cDNA libraries, prepared from fetal lung, fetal kidney, cfetal brain, fetal liver and fetal retina. The encoded polypeptides come specific uses based on their homology to known polypeptides. CC have specific uses based on their homology to known polypeptides. CC e.g. PRO211 and PRO217 can be used for disorders associated with the creative preservation and maintenance of gastrointestinal mucosal and the repair cof acute and chronic mucosal lesions (e.g. enterocolitis, cof acute and chronic mucosal lesions (e.g. enterocolitis, cof acute and circophy), skin diseases associated with abnormal composition acrovillus atrophy), skin diseases associated with abnormal composition of the valva and gliomas), potent effects on coll growth and development, diseases related to growth or survival of cell growth and development, diseases related to growth or survival of concerve cells including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer .PRO265 can be used as for fibromodulin, e.g. for reducing dermal scarring. PRO264 can be used as target for anti-tumor
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Best Local Si Matches 2586; Query Match drugs. PRO533 may be used in the treatment of Usher Syndrome or Atropareata, PRO269 can be used as an anti-thrombotic agent; PRO287 polypeptides and portions may have therapeutic applications in wound healing and tissue repair; PRO317 can be used for treating problems of the kidney, uterus, endometrium, blood vessels, or related tissue, e.in the heart of genital tract. Sequence 781 721 661 661 601 601 541 541 481 481 421 421 361 361 301 241 241 121 781 721 181 181 121 61 9 1 Similarity TACCTCCCAGCTATCACAATGAGACCACACACACACGAAGGTTGGAAATAATACCATCC CCGGCGGCTCCCGGCGGGAGCGAGCAGATCCAGTCCGGCCCGCAGCGCAACTCGGTCCA CGCCGCGCTCCCGCACCCGCGGCCCGCCCACCGCTCCCGCATCTGCACCCGCAGC TGTGCACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGG ACCAGAGGGACTGCCAGCCGGGGCTGTGCTGTGCCTTCCAGAGAGGCCTGCTGTTCCCTG GTGTCTGGGGTCACTGCACCAAAATGGCCACCAGGGGCAGCAATGGGACCATCTGTGACA GTGTCTGGGGTCACTGCACCAAAATGGCCACCAGGGGCAGCAATGGGACCATCTGTGACA ACGAGGACTGTGGGCCAGCATGTACTGCCAGTTTGCCAGCTTCCAGTACACCTGCCAGC ACGAGGACTGTGGGCCCAGCATGTACTGCCAGTTTGCCAGCTTCCAGTACACCTGCCAGC AGACAGTTATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAGCCACGAGTGCATCATCG ATGTGCACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAG TACCTCCCAGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAATACCATCC **AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACT** AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACT TGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCACAAATTGCGCAGCGCGGTGG TGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGG CTCCAGTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGA CTCCAGTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCCACCCTCAATGAGA GCCTGCTGCTGGCGGCGGCGGTCCCCACGGCCCCGCGCCCCGCTCCGACGGCGACCTCGG GTCGGGGCGGCTGCGGGCGCAGAGCGGAGATGCAGCGGCTTGGGGCCACCCTGCTGT CCGGCGGCCTCCCGGCGGAGCGAGCAGATCCAGTCCGGCCCGCAGCGCAACTCGGTCCA CGCCGCGCTCCCGCACCCGCGCCCCCCCCCGCCTCCCGCATCTGCACCCGCAGC 2586 BP; 631 ACCAGAGGGACTGCCAGCCGGGGCTGTGCTGTGCCTTCCAGAGAGGCCTGCTGTTCCCTG 100.0%; ilarity 100.0%; Conservative (A 679 0, ç, Score 2586; Pred. No. 0; 703 Mismatches G; 573 Ť; BB 20; 0 0; other; Indels Length 0 Gaps Atrophia of. ġ 120 480 900 840 840 780 720 720 660 660 600 600 540 540 480 420 42C 360 360 300 300 240 240 180 60 60 0

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                                     TGTGTGAAACATGGTTGTAATATGCGACTGCGAACACTGAACTCTACGCCACTCCACAAA
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08-SEP-1999
13-SEP-1999
15-SEP-1999
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29-NOV-1999
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99WO-US22089.
99WO-US28214.
99WO-US38313.
99WO-US30951.
99WO-US3091.
99WO-US30999.
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Ashkenazi AJ, Botstein D, DeFilvaroff E, Fong S, Gao W, Godowski PJ, Grimaldi CJ, Gu. Mather JP, Pan J, Paoni NF, Williams PM, Wood WI; , Desnoyers L, o W, Gerber H, , Gurney AL, H NF, Roy MA, S H, Eaton DL,
H, Gerritsen I
Hillan KJ, I
Stewart TA, Kljavin Ferrara N; E, Goddard Ö A,

WPI; 2001-081051/09. DB; AAB80252.

Sixty one nucleic acids encoding PRO polypeptides which are the treatment of skin diseases (e.g. psoriasis), cancers (e. squamous cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's disease) ġ e.g. lung 'n

Claim 2; Fig 83; 393pp; English.

The present sequence is one of sixty one nucleic acids encoding novel secreted and transmembrane PRO polypeptides. The PRO polypeptides are useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders (e.g. lung enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease, parkinson's disease), wound repair, cardiovascular disorders (e.g. endometrial bleeding angiogenesis, ischaemias such as coronary ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis), infertility, AIDS and diabetes and retinal disorders such as retinitis pigmentosum. The PRO nucleic acids have applications in molecular biology, including use as hybridization probes, and in chromosome and gene mapping.

B₽; 631 A; 679 C; 703 G; 573 7, 0 other;

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                                         Query Match
Best Local S
Matches 2586
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CGCCGCGCTCCCGCACCCGCGCCCCGCCACCGCGCGCCCCCCCATCTGCACCCGCAGC
              CGCCGCGCTCCCGCACCCGCGGCCCCACCGCGCCGCTCCCGCATCTGCACCCGCAGC
                                           Conservative
                                                    100.0%;
                                                                100.0%;
                                        Score 2586;
Pred. No. 0;
Mismatches
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                                                                22;
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                                           Indels
                                                                Length
                                                                 2586
                                           0
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RESULT 3
AAF72413
ID AAF7
XX
AC AAF7
XX
DT 24-A

AAF72413 standard;

24-APR-2001

(first

1021 GGAGCCGTGACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCCGATGAGTATGAAG 1080	901 ACCTCATCACCTGGGAGCTAGAGCCTGATGAGCCTTGGACCGATGCCCTTGTGCCAGTG 960	781 ACCAGAGGGACTGCCCGGGGCTGTGCCTGTGCCTTCCAGAGAGGGCCTGCTGTTCCCTG 840	61 CATGCCGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTG	a coaggactgragaccagcatgtactgccagttraccagctracaccagcagcagcagcagcagcagcagcagcagcagcag	481 ATGTGCACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAG 540	GCTAAAGCATCATCAGAAGTGAACCTGGCAAACT AACACAGACACGAAGGTTGGAAATAATACCATCC	01 TGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGG 3	181 GCCTGCTGCTGGCGGGGGGGGGGGGGCGCCCCCGCGCGCGCGCGCGCGCG	CCGGCGGCCTCCCGGCGGAGCAGAATCCAGTCCGGCCCCAGCCCAACCCTGCTGT GTCGGGGCGGCGGCTGCGGGCGCAGAAGCGGAGATGCAACCCGGCTTGGGGCCCACCCTGCTGT	61 CCGGCGGCCTCCCGGCGGGAGCGAGCCAGATCCAGTCCGGCCCGCAGCGCAACTCGGTCCA 120
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RESULT 4
ARS74381
ID ARS74381
ID ARS74381
AXX ARS74
AXX ARS77
XXX ODT 10-D
DT Huma
XXX Huma
XXX Huma
XXX US20
XXX US20
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22-APR-1998
29-APR-1998
15-MAY 1998
10-JUN-1998
10-JUN-1998
10-JUN-1998
11-JUN-1998
11-JUN-1998
16-JUN-1999
14-MAY-1999
14-MAY-1999
15-SEP-1999
15-SEP-1999
15-SEP-1999
11-FEB-2000
30-WAR-2000
30-WAR-2000
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29-OCT-1997;
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97US-063435P.
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98US-082797P.
98US-083495P.
98US-088811P.
98US-088825P.
98US-088863P.
98US-0889105P.
98US-089105P.
98US-089115P.
98US-089115P.
98US-0891179330.
99WO-USJ03330.
99WO-USJ0311194.
99WO-USJ011194.
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The invention relates to an isolated secreted and transmembrane PRO

2 paypeptide having 80 % sequence identity to a sequence appearing
2 cas AB99551-AB9534 or their associated signal peptide. Also included are
2 the mucleic acids encoding the proteins with their associated signal
2 peptide or lacking its associated signal peptide. Also included are
3 the uncleic acids encoding the proteins with their associated signal
3 peptide or lacking its associated signal peptide. Also included are
3 the uncleic acids encoding the proteins with their associated signal
3 peptide or lacking its associated signal peptide. Also included are
3 the incleic acids encoding the proteins with percent.
3 percent of the proteins are useful for detecting a polypeptide designated as E. F. G. H. Or
3 polypeptide with a polypeptide designated as E. F. G. H. Or
3 polypeptide with a polypeptide designated as E. F. G. H. Or
3 polypeptide, P. Is a prolocation of an A. B. C. Or D. Polypeptide.
4 polypeptide, H. Is a prolocation of the proteins are
4 polypeptide, H. Is a prolocation of the protein are
5 polypeptide, H. Is a PROLOCATION polypeptide, B. Is a PROZOCATION polypeptide, B. C. Or D. D. C. D. P. P. C. Or D. Polypeptide designated as A. B. C. Or D. C. D. P. P. C. H. Or I. The bloactive molecule as a polypeptide designated as A. B. C. Or D. C. P. P. C. H. Or I. The bloactive molecule as a polypeptide designated as A. B. C. Or D. C. P. P. C. H. Or I. The bloactive molecule as a polypeptide designated as A. B. C. Or D. C. P. P. C. H. Or I. The bloactive molecule as a polypeptide designated as A. B. C. Or D. C. P. P. C. H. Or I. The bloactive molecule as a polypeptide designated as A. B. C. Or D. C. P. P. C. H. Or I. The bloactive molecule as a polypeptide designated as A. B. C. Or D. C. H. Or 
23-AUG-2000;
24-AUG-2000;
10-NOV-2000;
11-NOV-2000;
20-DEC-2000;
20-DEC-2001;
20-JUN-2001;
09-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated secreted and transmembrane PRO polypeptide useful for modulating biological activity of a cell, or for treating sports-related joint problems, osteoarthritis or rheumatoid arthritis
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Grimaldi JC,
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Gurney AL,
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2000WO-US23322.

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; 2000WO-US33273.

; 2000WO-US33973.

; 2000WO-US34956.

; 2001WO-US34956.

; 2001WO-US16520.

; 2001WO-US21066.

; 2001WO-US21065.
                                     transmembrane
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Watanabe
                                   protein of the invention
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Sequence 631 A; 679 C; 703 G; 573 Τ; 0 other;

Query Match Best Local Similarity Matches 2586; Conserv 100.0%; ilarity 100.0%; Conservative 0. 0 Score 2586; Pred. No. 0 red. No. 0; Mismatches В 24; 0 Indels Length: 2586; 0 Gaps

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RESULT 5
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10-NOV-2000;

10-NOV-2000;

20-DEC-2000;

20-DEC-2000;
                                                                                                                23-AUG-2000;
24-AUG-2000;
07-SEP-2000;
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25-JUL-2000;
28-JUL-2000;
                                                                                                                                                                                                                                                                                                     Homo
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                                                                                                                                                 02-AUG-2000;
17-AUG-2000;
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                                                                                                                                                                                                                                                                                                                            antiarteriosclerotic; gene;
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 2000US-220624P.
2000US-220624P.
2000US-22064P.
2000US-22065P.
2000US-22265P.
2000US-22265P.
2000US-23522.
2000US-064365P.
2000US-054365P.
2000US-064365P.
2000US-064365P.
2000US-066350.
2000US-066350.
2000US-0709238.
2000WG-US33952.
2000WG-US339573.
2000WG-US339573.
2000WG-US33678.
2000WG-US33678.
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disorder;
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22-JAN-2001;
28-FEB-2001;
28-FEB-2001;
01-MAR-2001;
01-MAR-2001;
14-MAR-2001;
22-MAR-2001;
10-MAY-2001;
10-MAY-2001;
25-MAY-2001;
25-MAY-2001;
25-MAY-2001;
30-MAY-2001;
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Godowski PJ, Gurney AL,
Stephan JF, Watanabe CK,
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(STEP/)
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DB; ABB95447.
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PAONI N F.
STEPHAN J F.
WATANABE C K.
WILLIAMS P M.
WOOD W I.
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GERRITSEN M E.
GODDARD A.
GODDWSKI P J.
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BAKER K P.
FERRARA N.
                                                                                                                                                                                                                           GURNEY A
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2001US-0802706

2001US-0808689

2001US-0816744

2001US-0828366

2001US-0854280

2001US-0866028

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2001US-0870574

2001US-0870574

2001WO-US17802

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2001WO-US17800
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2001US-0796498.
2001WO-US06520.
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L, Hillan KJ, Marsters SA,
CK, Williams PM, Wood WI,
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One hundred and eighty seven nucleic acids encoding useful in diagnosis and treatment of cardiovascular infarction), endothelial or angiogenic disorders in PRO polypeptides, (e.g. myocardial a mammal -

Claim 1; Fig 49; 567pp; English.

The present invention provides the protein and coding sequences of human PRO proteins. These are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder, including cardiac hypertrophy, trauma, cancer, age-related macular degeneration, atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast carcinoma and liver carcinoma) and wound healing. The present sequence is a coding sequence of the invention.

Sequence 2586 BÞ; 631 A; 679 C; 703 G; 573 T; 0 other;

Similarity

100.0%;

DB 24;

Length

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GTCGGGGCGGCTGCGGGCAGAGAGCGGAGATGCAGCGGCTTGGGGGCCACCCTGCTGT
                                    CCGGCGGCCTCCCCGGCGGGAGCGAGCAGATCCAGTCCGGCCCGCAGCGCAACTCGGTCCA 120
                                                               ceccecerrocecaccececececceccaccececececececarcrecaccecaccecacce
                        CCGGCGGCCCCCCGGCGGGAGCGAGCCAGATCCAGTCCGGCCCGCAGCGCAACTCGGTCCA
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Pred. No. 0;
0; Mismatches
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    02-AUG-2000; 2000US-0243657.
23-AUG-2000; 2000US-0243657.
23-AUG-2000; 2000WO-US23352.
24-AUG-2000; 2000WO-US23352.
24-AUG-2000; 2000WO-US23328.
07-SSP-2000; 2000US-0264510.
18-SEP-2000; 2000US-0264510.
18-SEP-2000; 2000US-0265350.
24-CCT-2000; 2000US-023857.
08-NOV-2000; 2000WO-US30952.
10-NOV-2000; 2000WO-US30952.
10-NOV-2000; 2000WO-US30973.
01-DEC-2000; 2000WO-US30973.
01-DEC-2000; 2000WO-US3456.
20-DEC-2000; 2000WO-US3456.
22-UAN-2001; 2001US-0796498.
28-FSB-2001; 2001WG-0796498.
28-FSB-2001; 2001WG-0796498.
28-FSB-2001; 2001WG-0796498.
28-FSB-2001; 2001WG-086666.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; angiogenesis; cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma; gene therapy; cardiovascular disorder; endothelial disorder; cancer; angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension; age-related macular degeneration; arterial restenosis; angina; rheumatoid arthritis; myocardial infarction; thrombophlebitis; lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma; wound healing; chromosome mapping; gene mapping; gene; ss.
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28-JUL-2000;
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; 2000US-219556P.
; 2000US-220624P.
; 2000US-220664P.
; 2000WG-US20710.
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11 - MAY - 2001;

25 - MAY - 2001;

30 - MAY - 2001;

30 - MAY - 2001;
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Godowski PJ, Gurney AL,
Stephan JF, Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               One hundred and eighty seven nucleic acids encoding PRO polypeptides, useful in diagnosis and treatment of cardiovascular (e.g. myocardial infarction), endothelial or angiogenic disorders in a mammal -
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                                                                crccagrcaagcccggcccrcrcagcracccgcaggaggaggccacccrcaargaga
   TGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGG
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2001US-0818744.
2001US-0828366.
; 2001US-0854208.
; 2001US-086628.
; 2001US-0866028.
; 2001US-0866034.
; 2001WG-US17092.
; 2001WG-US17092.
; 2001WG-US1743.
; 2001WG-US1743.
; 2001WG-US174800.
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AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACT

42C 360 360

421 PROCTECCHOCHETTICACANADACCALCACACACACACACACACACACACACACACACAC
B
1441 GCCACCCCTTCCACAATTATTGGTTTGAGGGGAACAGGTTGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAGGTTGGAGACAACAACAACAGGTTCCCTC 1560 1561 TGATTGGTTTGGGGAAAACAACTTGTTGAGGGAAACAACACACAC

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11-FEB-2000
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02-JUN-2000
02-JUN-2000
02-JUN-2000
01-SEP-1997
17-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; secreted and transmembrane protein; gene therapy; psoriasis; enterocolitis; gastrointestinal ulceration; skin disease; keratinocyte differentiation; spithalial cancer; Alzheimer's disease; squamous cell carcinoma; Parkinson's disease; inflammatory disease; amyotrophic lateral sclerosis; rheumatoid arthritis, astima; multiple sclerosis; organ failure; atherosclerosis; cardiac injury; infertility; birth defect; premature aging; AIDS; cancer; diabetic complication; wound repair; tissue re-growth; gene; ss.
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99WO-US282114

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99WO-US30991

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99WO-US30991

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2000WO-US0414

2000WO-US0414

2000WO-US07377

2000WO-US07377

2000WO-US15264
2000WO-US23328.

97US-059113P.

97US-059117P.

97US-059117P.

97US-059121P.

97US-059121P.

97US-059184P.

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97US-062285P.
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99WO-US21090.
99WO-US21547.
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07-NOV-1997
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28-OCT-1997
28-OCT-1997
                                                               New PRO polypeptides and nucleic acid molecules, useful in diagnosing or treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's disease -
                                                                                                                                                  Ashkenazi A, Botstein D, Desnoyers L, Filvaroff E, Fong S, Gao W, Getber F Godowski PJ, Grimaldi JC, Gurney AL, Mather JP, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI;
  The invention describes sixty one nucleic acids encoding PRO polypeptides (secreted and transmembrane). The PRO polypeptides and nucleic acids are useful in diagnosing or treating enterocolitis, gastrointestinal
                                                                                                                   WPI; 2003-341586/32.
P-PSDB; ABU69662.
                                             Claim 2; Fig 83; 473pp;
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9708 063735P

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                                              English.
                                                                                                                                                                                Desnoyers L,
W, Gerber H,
                                                                                                                                                              Baton DL, Ferrara N;
, Gerritsen ME, Goddard A;
Hillan KJ, Kljavin IJ;
Stewart TA, Tumas D;
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ulceration, skin diseases associated with abnormal keratinocyte differentiation, e.g. psoriasis or epithelial cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, inflammatory disease, e.g. rheumatoid arthritis, asthma or multiple sclerosis, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, diabetic complications, or mutations in general. The polypeptides are also useful for wound repair and associated therapies concerned with re-growth of tissue. The pRO polypeptides and nucleic acid molecules are also useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The anti-pRO antibodies may be used in diagnostic assays for PRO, or for the affinity purification of PRO from recombinant cell culture or natural sources. This sequence
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11-FEB-2000;
22-FEB-2000;
23-FEB-2000;
24-AUG-2000;
27-SEP-1997;
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17-SEP-1997;
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21-OCT-1997;
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Ashkenazi A, Botstein D, Desnoyers L, Filvaroff E, Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi JC, Gurney AL, H Mather JP, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI; H, Gerritsen ME, Godd Hillan KJ, Kljavin I Stewart TA, Tumas D;

WPI; 2003-361832/34. P-PSDB; ABU71485.

New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or PRO1868, useful in molecular biology, chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy

Claim 2; Fig 83; 474pp; English.

The present invention relates to the isolation of novel human secreted and transmembrane proteins (PRO polypeptides), and the polynucleotide sequences encoding them. The polynucleotide sequences are useful in molecular biology, as hybridisation probes, in chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy. The polynucleotide sequences may also be used in preparing PRO polypeptides by recombinant techniques, and in generating either transgenic animals or knock-out animals which, in turn, are useful in the development and screening of therapeutically useful reagents. The PRO polypeptides or their antibodies are useful in preparing a medicament for treating a condition responsive to the polypeptide or antibody, such as cancer, Allheimer's disease or ischaemia, and in various diagnostic assays. The present sequence encodes a human PRO polypeptide of the invention.

Sequence 2586 BP; 631 A; 679 C; 703 G; 573 T; 0 other;

Ś 밁 Best Local Similarity Matches 2586; Conserv Query Match Best Local (Н Conservative 100.0%; Score 2586; .100.0%; Pred. No. 0; tive 0; Mismatches 멂 25; 0; Indels Length .0 Gaps 60 60 0

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1081 TTGGCAGCTTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGGAGCCTGACTG 1140	TTGGCAGCTTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGGAGCCTGACTG	1021 GGAGCCGTGACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGGATGAGTATGAAG 1080	961 GCCTCCTCTGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGG 1020	901 ACCTCATCACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTG 960		781 ACCAGAGGGACTGCCAGCCGGGGCTGTGCTGTGCCTTCCAGAGAGGCCTGCTGTTCCCTG 840	21 GTGTCTGGGGTCACTGCACCAAAATGGCCACCAGGGGCAGCAATGGGACCATCTGTGACA 	61 CATGCCGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTG	ACGAGGACTGTGGGCCCAGCATGTACTGCCAGTTTGCCAGTACACCTGCCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA	AGACAGTTATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAGCCACGAGTGCATCATCG 6	81 ATGTGCACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAG	21 TACCTCCCAGCTATCACAATGAGACCAACAGACAGACGAAGGTTGGAAATAATACCATCC	AAGAGATGGAGGCAGAAAAGCTGCTGCTAAAGCATCATCAGAAATGAACCTGGCAAACT	TGTTCCGCGAGGTTGAGGAACTGATGGAGGAGGACCACGCAGCACAAATTGCGCAGCGCGGGTGG 3	41 CTCCAGTCAAGCCCGGCCGGCTCTCAGCTACCGCAGGAGGAGGCCACCCTCAATGAGA	GCTGCTGCTGCTGGCGGCGGTCCCACGGCCCCGCGCTCCGACGGCGACCTCGG	GTCGGGGCGGCGGCGGCGCAGAGCGGAGATGCAGCGGCTTGGGGGCCACCCTGCTGT	61 CCGGCGGCCTCCCGGCGGGAGCAGATCCAGTCCGGCCGCAGCGCAACTCGGTCCA 120
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01-MAR-2000; 2000WO-US05641.
21-MAR-2000; 2000WO-US05641.
21-MAR-2000; 2000WO-US1564.
21-MAR-2000; 2000WO-US1564.
24-AUG-2000; 2000WO-US1564.
24-AUG-2000; 2000WO-US30873.
10-NOV-2000; 2000WO-US30873.
01-DEC-2000; 2000WO-US34956.
28-FEB-2001; 2001WO-US14906.
28-FEB-2001; 2001WO-US14906.
11-MAY-1999; 99US-0311832.
25-AUG-1999; 99US-0380137.
25-AUG-1999; 99US-0380139.
25-AUG-1999; 99US-0380139.
25-AUG-1999; 99US-0380139.
25-AUG-1999; 99US-0380142.
15-SEP-1999; 99US-0380142.
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30-DEC-1999;
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99US-0380138.
99US-0380139.
99US-0380142.
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99US-0403297.
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18-SEP-2000; 2000US-0664610.
18-SEP-2000; 2000US-0665550.
08-NOV-2000; 2000US-0747259.
20-DEC-2000; 2000US-0747259.
22-MAR-2001; 2001US-0854208.
10-MAY-2001; 2001US-0854280.
30-MAY-2001; 2001US-0854280.
30-MAY-2001; 2001US-0874503.
05-JUN-2001; 2001US-0874503.
29-JUN-2001; 2001US-0879599.
18-JUL-2001; 2001US-0869999.
                                                                                                                                                                                                               New isolated antibody specifically binding a PRO polypeptide, useful for the preparation of a medicament for treating disorders with the aberrant expression or activity of the PRO polypeptide, such as tumor conditions and cancer
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P-PSDB; ABU71509.
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Grimaldi JC,
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Watanabe
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Wood WI;
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The invention relates to an antibody that binds to a polypeptide with a CC fully defined sequence given in the specification. The methods and CC compositions (containing antibodies that specifically bind a PRO CC polypeptide) of the present invention are useful for the preparation of a CC medicament for the treatment of disorders associated with the aberrant CC expression or activity of the PRO polypeptide, such as tumour conditions CC and cancer. They can also be used to generate transgenic or knockout CC animals useful in the development and screening of therapeutically useful CC reagents. The PRO polypeptides and encoding nucleic acids can be used as CC identification and tissue typing. The PRO polypeptides are useful to indentification and tissue typing. The PRO polypeptides are useful to CC induce angiogenesis e.g wound healing, in the treatment of sports-related CC or introduced the control of the cont

Sequence 2586 BP; 631 A; 679 C; 703 G; 573 T; 0 other;

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24-NOV-1997; 97US-066772P
18-SEP-2000; 2000US-0665350
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Ashkenazi A, Botstein D, Desnoyers L, Filvaroff E, Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi JC, Gurney AL, Mather JP, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI; Eaton DL, Ferrara N; , Gerritsen ME, Goddard Hillan KJ, Kljavin IJ; Stewart TA, Tumas D; Þ

WPI; 2003-329602/31. P-PSDB; ABU71931.

New transmembrane polypeptides and nucleic acids encoding the polypeptides, useful in gene therapy, in chromosome identification, chromosome markers, in generating probes and in tissue typing

Claim 2; Fig 83; 484pp; English.

The invention relates to an isolated nucleic acid with at least 80% cmucleic acid sequence identity to a nucleotide sequence encoding one of CC in secreted/transmembrane polypeptides, or PRO polypeptides or encoding a CC PRO protein extracellular domain. Also included are a vector comprising the PRO nucleic acid, a host cell comprising the vector, producing a PRO cc polypeptide (by culturing the host cell for the expression of the PRO polypeptide (by culturing the PRO polypeptide from the cell culture), cc an isolated PRO polypeptide (having at least 80% sequence identity ct; (a) an amino acid sequence selected from the 61 PRO proteins; cc (b) an amino acid sequence selected from the 61 PRO proteins; cc (c) an amino acid sequence selected from the 61 PRO proteins; cc extracellular domain of a PRO polypeptide or to a PRO polypeptide lacking certassociated signal peptide), a chimaeric molecule comprising a PRO cc polypeptide of fused to a heterologous amino acid sequence, an anti-PRO antibody, detecting a PRO245 or PRO1868 in a sample suspected of containing the polypeptide, linking a bioactive molecule to a cell expressing a PRO245 or PRO1868. Nucleic acids which

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Best Local Similarity
Matches 2586; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    encode PRO can be used to generate either transgenic animals or knock-ou animals which may be used in the development and screening of therapeutically useful respents. The nucleic acids may also be used in generating, probes. The PRO polypeptides are useful as molecular markers for protein electrophoresis, and the isolated nucleic acids may be used to recombinantly expressing those markers. The PRO polypeptides are useful as molecular markers for protein electrophoresis, and the isolated nucleic acids may be used nucleic acids may also be used in tissue typing. Anti-PRO antibodies are useful in diagnostic assays for PRO, and in affinity purification of PRO from recombinant call culture or natural sources. The
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                                    01-MAY-2002; 2002US-0063512
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(GETH ) GENENTECH INC.
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WPI; 2003-330984/31.

New secreted and transmembrane PRO polypeptides and nucleic acid molecules encoding the polypeptides, useful in gene therapy or preparing a medicament for treating a condition that is responsive the PRO polypeptide or antibody ď

Disclosure; Fig 7; 409pp; English

The invention describes novel isolated PRO polypeptides. The PRO polypeptides or anti-PRO antibodies are useful in preparing a medicament for treating a condition that is responsive to the PRO polypeptide or cantibody. The PRO nucleotide sequences may be used as hybridisation that is responsive to the PRO polypeptide or cantibody. The PRO nucleotide sequences may be used as hybridisation composes in chromosome and gene mapping, or in generating antisense RNA cand DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in assays to identify other proteins or molecules involved in binding creaction, to generate transgenic animals or knockout animals, which in turn are useful in the development and screening of therapeutically cuseful reagents, for chromosome identification, and tissue typing. The C useful reagents, for chromosome identification, and tissue typing. The CC purposes and nucleic acid molecules are also useful in gene culture or he affinity purification of FRO from recombinant cell culture or natural sources. This sequence encodes a novel human cc secreted and transmembrane PRO poypeptide.

Sequence 2586 BP; 631 A; 679 C; 703 G; 573 T; 0 other;

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RESULT 12
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      TAAAGTTGCACATGATTGTATAAGCATGCTTTCTTTGAGTTTTTAAATTATGTATAAACAT
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                                                                     Sixty one
PRO245 or
antisense
                                                                                                                                                  Ashkenazi A, Botstein D, Desnoyers L, Filvaroff E, Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi JC, Gurney AL, i Mather JP, Pan J, Paoni NF, Roy MA, i Williams PM, Wood WI;
The invention relates to sixty one nucleic acids encoding PRO polypeptides (secreted and transmembrane). The polynucleotide in molecular biology, including uses as hybridisation probes,
                                              Example
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                                                                                                                  2003-331485/31.
DB; ABU67385.
                                                                                                                                                                                                                          GENENTECH INC.
                                             38; Fig
                                                                  isolated nucleic acids encoding a PRO polypeptide, e.g. PRO1868, useful in chromosome and gene mapping, in generating NNA and DNA, and in treating cancer and Alzheimer's disease -
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chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy. The polymucleotide may also be used in preparing PRO polypeptides by recombinant techniques, and in generating either transgenic animals or knock-out animals which, in turn, are useful in the development and screening of therapeutically useful respents. The PRO polypeptide or the antibody is used in preparing a medicament for treating a condition responsive to the polypeptide or antibody, such as mucosal lesions e.g. ulcers and enterocolitis, skin disease e.g. paoriasis, cancer e.g. lung cancer and colon cancer, nerve cell disease e.g. Alzheimer's disease and Parkinson's disease, Usher syndrome, arrophia areata, angiogenesis, inflammatory disease e.g. asthma and rheumatoid arthritis, ischaemia, and in various diagnostic assays. The
                                                                                                   present sequence represents an
2586 BP; 631 A; 679 C; 703 G; 573
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ABX96211 standard; CDNA; 2586

ABX9,6211;

13-MAY-2003 (first entry)

Human secreted/transmembrane protein CDNA, #43.

ABX96211
ID ABX96211
ID ABX96211
AC ABX96
XX ABX96
XX ABX96
XX Human
XX Hum Human; gene; ss; PRO; secreted; transmembrane; pharmaceutical; diagnostic; biosensor; bioreactor; therapeutic; hyperplasia; endometriosis; cancer; tumour; ischaemia; coronary arterial disease; polycystic kidney disease; renal failure; inflammatory response; ast rheumatoid arthritis; psoriasis; multiple sclerosis; gene therapy; cytostatic; gynecological; cardiant; nephrotropic; hepatotropic; antiinflammatory. asthma;

Homo sapiens

US2002160374-A1

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17~SEP-1998; 01-DEC-1998; 08-SEP-1999;

99WO-US20594

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15-SEP-1999; 15-SEP-1999; 05-OCT-1999; 29-NOV-1999; 30-NOV-1999; 13-SEP-1999;

99WO-US21547.
99WO-US23099.
99WO-US28313.
99WO-US28313.
99WO-US28365.
99WO-US28564.
99WO-US30095.
99WO-US30095.

10-SEP-1998; 14-SEP-1998; 16-SEP-1998;

98WO-US18824 98WO-US19177

98WO-US19330

2001US-0905291

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Best Local Similarity
Matches 2586; Conserv
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P-PSDB; ABU64539.
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97US-066120P.
97US-0661364P.
97US-066364P.
97US-066466P.
97US-066712P.
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100.0%; Pred. No. 0;
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01-DEC-1999
99WO-US28564
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99WO-US28565
16-DEC-1999
99WO-US28565
16-DEC-1999
99WO-US29565
16-DEC-1999
99WO-US29565
11-EBB-2000
2000WO-US030991
12-DEC-1999
99WO-US29565
12-EBB-2000
2000WO-US05004
12-FBB-2000
2000WO-US06414
14-24-FBB-2000
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17-BB-2000
2000WO-US06439
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1441 COCACCCCTTTCAMATTATTOGCTCCTTTTACCAGTTTGGCAAACGCCTTTTGT 1500 1441 COCACCCCTTTCATAATTATTTGGCTGCTTTACCGTTTGGCAAACGCCTTTTGT 1500 1501 TCTACATGGCTTTCATAATTTTTTTTGAGGGAACAGAGTGGAAAACAATTTGGAGTTCCCTT 1500 1501 TCTACATGGCTTTGATAATTTTTTTTTTTTAGAGGAACAGAGTGGAAAAAAAA

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RABXILT 15
RABXILT 1642
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IID XIBXILT 10
RAM ABXILT 10
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Ashkenazi A,
Filvaroff E,
Godowski PJ,
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02-DEC-1999;
16-DEC-1999;
20-DEC-1999;
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15-SEP-1999;
15-SEP-1999;
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17-OCT-1997;
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17-SEP-1997;
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28-JUL-2000;
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14-SEP-1998;
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2000WO-US03561
2000WO-US03561
2000WO-US034614
2000WO-US20710
2000WO-US23718
97US-059113P
97US-059117P
97US-0621125P
97US-062287P
97US-062814P
97US-062816P
Botstein D, :
Fong S, Gao !
Grimaldi JC,
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Desnoyers L, Eaton DL, Ferrara N; W, Gerber H, Gerritsen ME, Goddard Gurney AL, Hillan KJ, Kljavin IJ;
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GCCTGCTGCTGGCGGCGGCGGTCCCCACGGCCCCCGCTCCGGCGCGACGGCGACCTCGG

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CTCCAGTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGA 300

Query Match Best Local Simi Matches 2586;

Similarity

100.0%; Score 2586; 100.0%; Pred. No. 0; tive 0; Mismatches

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Conservative

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Sequence 2586 BP; 631 A; 679 C; 703 G; 573

Ţ, В 0; 25; 0 other;

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The invention relates to an isolated PRO polypeptide having at least 80% cc amino acid sequence identity to: (a) any one of 61 fully defined amino cc acid sequences given in the specification (appearing as ABU5447-c) (abu54407); (b) an amino acid sequence encoded by the nucleotide sequence cc deposited under American Type Culture Collection (accession numbers ciliated in the specification); (c) any one of the PRO sequences which lacks its associated signal peptide; (d) an extracellular domain of the PRO polypeptide with its associated signal peptide; (d) an extracellular domain of the PRO polypeptide which lacks its associated cc signal peptide. Also include are the nucleic acids encoding the PRO correctly peptides, vectors, host cells and anti-PRO antibodies; or reating enterocolitis, gastrointestinal ulceration, skin diseases of sociated with abnormal keratinocyte differentiation, e.g. psoriasis cr epithelial cancers such as squamous cell carcinoma, Alzheimer's cor epithelial cancers such as squamous cell carcinoma, Alzheimer's cor epithelial cancers such as squamous cell carcinoma, Alzheimer's corporated with abnormal keratinocyte differentiation, e.g. psoriasis cor epithelial cancers such as squamous cell carcinoma, Alzheimer's corporated with abnormal keratinocyte differentiation, e.g. psoriasis cor epithelia, oather propertide, atherosclerosis, cardiac injury, infertility, climations, organ failure, atherosclerosis, cardiac injury, infertility, corporated barriers and associated therapies concerned with re-growth of tissue. The creater and associated therapies concerned with re-growth of tissue. The creater also useful for wound corporate transgenic animals or molecules involved in binding reaction, to generate transgenic animals or molecules involved in binding reaction, to cardiac and mucleic acid molecules are also useful in gene creaters. The propertide, and tissue typing. The PRO corporate and sociated acid molecules are also useful in gene concerned with respective and seasys for proteins. The affin
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	SOURCE SOURCE SOURCE IN COUNT	ALIGNMENTS RESULT 1 EX418715 LOCUS DEFINITION BX418715 Homo sapiens FETAL BRAIN Homo sapiens cDNA clone ACCESSION CSODFOOSYN12 5-FRIME, mRNA sequence. BX418715.1 GI:30769505 VERSION EX718715.1 GI:30769505 VERSION BX418715.1 GI:30769505 EVERSION EVER

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	CSODF008YN12 5-PRIME, mRNA sequence.
ACCESSION	BX418715
VERSION	BX418715.1 GI:30769505
KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; I Eukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; 1 (baees 1 to 1002) NIH-MGC http://mgc.nci.nih.gov/. National Institutes of Health, Mammalian Gene Collect
                                                                                                                 BU157365 1002 k
AGENCOURT_6937229 NIH_MGC_110
5', mRNA sequence.
BU157365
BU157365
BU157365.1 GI:22670897
EST.
                                                                                                 Homo sapiens (human)
                                                                                                                                                                                                                                                                             TAMTAARAAAAWGSGCTGGGGGGGCTBCGCTGCCGCCCTGCMCT
                                                                                                                                                                                                                                                                                                                                              ATGAAGTTGGCA-CTTCATGGAGGAGGTGSG
                                                                                                                                                                                                                                                                                                                                                                 ATGAAGTTGGCAGCTTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGAGCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCAGTGGCCTCCTCTGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCT
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    CAGGAGCTGGAGGACCTGGAGAGCH

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                                                      GGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCCAGGCTGTTCTCCAGGCTT
                                                                                                                      CTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCCTCCCAGTAAGTTTTCCCCTCT
                                                                                                                                                                                                                                                 GCGCTGGGGGAGCCTGCGGCTGCGCCTGCACTGCTGGGAGGGGAAGAGATTTAGATC
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                                                                                                   CTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTTTCCCCCTCT
                                                                                                                                                                                              GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC
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CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2139 row: p column: 22
High quality sequence stop: 743.
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                             /tissue_type="ductal carcinoma, cell line"
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/clone_lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Organ: pancreas; Vector: potmo: potmo:
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/db_xref="taxon:9606"
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                                                                  36.5%;
0;
Score 945; DB 13;
Pred. No. 2e-114;
0; Mismatches 20;
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2 > 4 6 11 1	RESULT 3 BQ690088 LOCUS DEFINITION ACENCOURT 8034033 NIH_MGC_110 Homo sapiens cDNA clone IMAGE:6208328 ACCESSION GC990088 VERSION KEYWORDS ORGANISM Homo sapiens (human) ORGANISM Extaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE AUTHORS NIH-MGC http://mgc.nci.nih.gov/. National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished COMMENT Email: cgapbs-r@mail.nih.gov Email: cgapbs-r@mail.nih.gov Email: cgapbs-r@mail.nih.gov	Db 541 CACAGTCTGGTGCTTGGGAAGATCAGGCAGGACAGCGTTTACCAGCAGTTGCCACCCC 600 Qy 1449 TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG 1508 Eb 601 TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG 1508 CO 1509 GCTTTGATAATTGTTTTGAGGGAGACAGCCGTTTGGATTCTACATG 600 Qy 1509 GCTTTGATAATTGTTTTGAGGGAGACATGGAACAACATGGAGACCGTTTGTTCTACATG 600 Qy 1569 TTTGGGGAAATGTTTTTGAGGGAGAGAACAACATGTGGAACATCCCTCTGATTGGT 720 Qy 1569 TTTGGGGAAATGTTGTGAGAGAGAGTGCCCTGCTTTGCAAACATCAACCTGGAAAAAATGCAA Db 721 TTTGGGGAAATGTTGGAGAGAGATGTTGCCTTTGCAAACATCAACCTGGCAAAAATGCAA P8 CAAATGAATTTTCCACGCAGTTCTTTCCATGGGCATAGGTAGCTGTGCCTTCAGCTGTT 1688 Db 78 CAAATGAATTTTCCACGCAGTTCTTTCCATGGGCATAGGTAGCTGTGCCTTCAACTGTT Db 840 GCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCAGTGTTGCT Qy 1689 GCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCAGTGTTGCT P9 1749 GCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCAGTGTTGCT Qy 1749 CAGCTCCTACCTCTGTGGCCAGGGCAGTTTTCATATTCCAAGATCAATTCCCTCCTCAG P0 1809 CACAGCCTGGGGC-AGGGGCAGCATTTTCATATTCCAAGATCAATTCCCTCTCCAG P0 1809 CACAGCCTGGGG-AGGGGGCAGCATTTTCATATTCCAAGATCAATTCCCTCTCTCAG P0 1809 CACAGCCTGGGG-AGGGGGCCTTGGTTCTTCTCTCCAGCAATAGG P0 1809 CACAGCCTGGGGC-AGGGGGCCTTGGTTCTCTCCTCCAGCAATTCCCTCTCTCAG P0 1809 CACAGCCTGGGGG-AGGGGGCCTTGGTTCTCTCCTCCAGCAATAGG P0 1809 CACAGCCTGGGGG-AGGGGGCCTTGGTTCTCTCCTCCCCCCAATAGG P0 1809 CACAGCCTGGGGGAAAGGGGGGCCTTGGTTCTCTCCCTCC
Qy 1449 TETCCAGATTATTGGCTGTTTGCTCTACCAGTTGGCAGACAGCCGTTTGTTT	301 dederda dederrice de de de de de de des de des des des d	of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies) Note: this is a NIH_MCC Library." SE COUNT 186 a 234 c 275 g 240 t 1 others 161N Duery Match 35.4%; Score 916.6; DB 13; Length 936; Best Local Similarity 99.4%; Pred. No. 1.1e-110; Matches 930; Conservative 0; Mismatches 5; Indels 1; Gaps 49 cccrracccgragagagagagagagagagagagagagaga

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RESULT 4
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cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2365 row: k column: 09
High quality sequence stop: 698.
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Tissue Procurement: ATCC
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, M
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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      GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGGTCCCCGATGAGTATGAAGTTGGCAGC
                                                                                                                                                                                                                                                                                                                                                                                      ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC
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/db xref="raxon:9606"
/db xref="raxon:9606"
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/clone="IMAGE:6208256"
/tissue_type="ductal carcinoma, cell line"
/libsot="PolloB (phage-resistant)"
/clone_lib="NIH_MGC_110"
/clone_lib=
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Pred. No. 1.8e-110;
0; Mismatches 8;
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sapiens cDNA clone IMAGE:6208256
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CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information cai
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2393 row: f column: 15
High quality sequence stop: 710.
Location/Qualifiers
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AGENCONT 8343587 NIH_MGC_110
5', mRNA sequence.
BQ686792
                                                                                                                                                                                        Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; V
Mammalia; Eutheria; Primates; Catarrhini;
1 (bases 1 to 932)
NIH-MGC http://mgc.nci.nih.gov/.
Mational Institutes of Health, Mammalian
                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
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Catarrhini; Hominidae;
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GTTTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAAAAATGC
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/clone="IMAGE:6250382"
/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/tab host="DHIOB (phage-resistant)"
/clone=lib="NIH_MGC_110"
/clone="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
/note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
/note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
/note="Cotal made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5; adaptor: GGCACGAG(G). Library constructed by
following 5; adaptor: GGCACGAG(G). 
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CDNA Library Arrayed by: The I.M.A.G.B. Consortium (LINL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2392 row: n column: 04
High quality sequence stop: 584.
Location/Qualifiers
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Tissue Procurement: ATCC
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National Institutes of Health, Mammalian
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/db_xref="taxon:9606"
/clone="IMAGE:0520179"
/tissue_type="ductal carcinoma, cell line"
/lab host="holds (phage-resistant)"
/clone_lib="line" MCC_110"
/clone_lib="line" MCC_110"
/finte="forgan: panoreas; Vector: pOTB7; Site_1: XhoI;
/site_2: EcoRI; cDNA made by collayo-dT priming.
/site_2: EcoRI; cloned: c
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AGENCOURT 8034941 NIH MGC_110 Homo sapiens cDNA clone IMAGE:6207089
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 912)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Tissue Procurement: ATCC
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Contact: Robert Strausberg,
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                                                        GGCTTGACAGCATGAGGTGTTGTGCACTTTGTTCAGCTCCCCAGGCTGTTCTCCAGGCTT
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/lab host="DH10B (phage-resistant)"
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/clome_lib="NIH_MGC_110"
/note="Organ: pancreas; vector: pOTB7; Site_1: XhoI;
/note="Organ: pancreas; vector: pOTB7; Site_1: XhoI;
/note="Torgan: pancreas; vect
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/db_xref="taxon:9606"
/clone="IMAGE:6207089"
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0; Mismatches 11;
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BASE COUNT ORIGIN		FEATURES source			Continue	AUTHORS TITLE JOURNAL	ORGANISM	ACCESSION VERSION KEYWORDS	AL535720 LOCUS DEFINITION			90 80		Qy 1	Qy 1 Db	·	Db 1	ii	מס
/dev_stage="retal" /clone_lib="Momo sapiens FETAL BRAIN" /clone_lib="Gran; brain; Vector: pCMVSPORT_6; 1st strand cDNA /note="Organ; brain; Vector: primeT. Five prime end was primed with a NotI-cligo(dT) primeT. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoRV sites of the pCMVSPORT_6 vector. Library was not normalized." 222 a 294 c 296 g 165 t	/mol Type="mxxA" /db xref="taxon:9606" /clone="CSODF016YJ11" /tlssue_type="FETAL BRAIN" /dor.thessue_type="FETAL BRAIN"	Location/Qualifiers 1977 /organism="Homo sapiens"	cgi-bin/Cluster_ggi?seg-CSODF016CE06QP1&cluster=6027.r. Contact: cgi-bin/Cluster_ggi?seg-CSODF016CE06QP1&cluster=6027.r. Contact: Feng Liang Email : filang@lifetech.com URL: http://fulllength.invitrogen.com/ InVitroGen Corporation 1600 Faradav Avenue Genoscope secuence ID : CSODF016CE06QP1.	Invitrogen. This sequence belongs to sequence cluster 6027.r For more information about this cluster, see	Contact: Genoscope Genoscope - Centre National de Sequencage Bp 191 91006 EVRY cedex - France Empil. segressence one fr. Web : werd Genoscope fr	, Jessee, J. and Pola braries and normali		31:312607	AL535720 9: AL535720 Homo sapiens FETAL	900 TCAGCTCCTACC 911	TCAGCTCCTACC	40 GCAGATGAAATGTTCTGNTCACCCCTGCATTACATGTGNTTAATTCATCCAGCAGTGTTGC	780 CAAATGAATTTTCACCAGTTCTTTTTTTTTTTTTTTTTT	.629 CAAATGAATTITCCACGCAGTTCTTTCCATGGGCATAGGTAAGCTGTGCCTTCAGCTGTT 1688	569 TTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAAAAATGCAA 1628	GCTTTGATAATTGTTTGAGGGGAGGAGATGGAAACAATGTGGAGTCTCCCTCTGATTGGT	601 TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG 660		541 CACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTTGCCACCCC 600
RESULT 9 BU149689 LOCUS DEFINITION AGENCOURT 8049944 NIH MGC_110 Homo sapiens cDNA clone IMAGE:6083782 **ACCESSION** BU149689.1 GI:22663221	Oy 966 CTCTGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCC 1009	QY 906 ATCACCTGGGAGCTAGAGCCTGATGGACCTTTGGCCAGTGCCTCTGTGCCAGTGCCTC 965	ACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTC 90	QY 786 AGGACTGCCAGCCGGGCTGTGCTGCTTCCAGAGAGGCCTGCTGTTCCCTGTGTGC 845	Qy 726 TGGGGTCACTGCACCAAAATGGCCACCAGGGGCAGCAATGGGACCATCTGTGACAACCAG 785	Qy 666 CGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTGCTGTGGAGACCAGCTGTGTGTC 725	QY 606 GACTGTGGGCCCAGCATGTACTGCCAGTTTGCCAGTACACCTGCCAGCCA	QY 546 GTTATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAGCCACGAGTGCATCGATCG	OY 486 CACCGAGAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAGAGACA 545	Db 394 CCCAGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAATACCATCCAT	334	366 ATGGAGGAAGAAGAAGCTGCTGCTAAAGGATCATCAGAAGTGAACCTGGCAAACTTACCT 4	Qy 306 CGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGGGGCAGGGGGGGG	Db 215 GTCAAGCCCGGCCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGATGTTC 274	Db 155 CTGCTGGCGGCGGCGGCTCCCAACGGCCCCCCGCGCCCCCAACGGCGACGGCGACGGCGACGGCGACGGCGACGGCGACGA	186 CTGCTGGCGGCGGCGCCCACGGCCCCCGCGCCCCGCGCTCCGACGGCGACCTCGGCTCCA 2	QY 126 GGCGGCGGCGCGGCGAGAGCGGAGAGCGGCTTGGGGGCCACCCTGCTGTGCCTG 185	Best Local Similarity 99.9%; Pred. No. 7e-105; Matches 883; Conservative 0; Mismatches 0; Indels 1; Gaps 1;	h 33.7%; Sc

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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2314 row: h column: 23
High quality sequence stop: 678.
Location/Qualifiers
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1 (bases 1 to 949)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Tissue Procurement: ATCC
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/tissue_type="ductal carcinoma, cell line"
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/tlone lib="NH108 (phage-resistant)"
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/clone lib="NH1 MGC 110"
/clone lib="NH1 MGC Library pormaing.
/clone lib="conally cloned into EcoRI/XhoI sites using the birectionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDMA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).

Note: this is a NH MGC Library."
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mol_type="mRNA"
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Pred. No. 1.3e-104;
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Homo sapiens

Bukaryota; Metazoa; Chordata; Craniata; Verte

Bukaryota; Metazoa; Chordata; Craniata; Verte

Mammalia; Butheria; Primates; Catarrhini; Hon

1 (bases 1 to 959)

Li,W.B., Gruber, C., Jessee, J. and Polayes, D.

Full-length cDNA libraries and normalization
                                                                                                                                                                                                   Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r |
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CS0DF016CE06NP1&cluster=6027.r. Contar
feng Liang Email : fllang@llfetech.com URL :
http://fulllength.invitrogen.com/InVitroden Corporation 1600
Faraday Avenue Genoscope sequence ID : CS0DF016CE06NP1.
Location/Qualifiers
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EST.
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AL566024 Homo sapiens FETAL BRAIN Homo CSODF016YJ11 3-PRIME, mRNA sequence.
AL566024
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/clone="CSODF016YJ11"
/tissue_type="FETAL BRAIN"
/dev_stage="fetal"
                                                                                        /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTGCTTGCCCAAGTCACACAGCTAGTGAAGACCAGAGCAGTTTCATCTGGTTGTGACTC
                                                                                                 GTTGTAATATGCGACTGCGAACACTGAACTCTACGCCACTCCACAAATGATGTTTTCAGG
                                                                                                                                                         CTGAAGACAATTATCAACCACGTGGAGAAAATCAAACCGAGCAGGGCTGTGTGAAAACATG
                                                                                                                                                                                                                         TACTTAGGTAATTGTAGGGCGAGGATTATAAATGAAATTTGCAAAATCACTTAGCAGCAA 2293
                                                                                                                                                                                                                                                                                               АТТАСТААСТТТСАРАССТАТАТСАСТСАСССТАССАТАСАССТТАРССТССАСАРАСТС 2233
                                                                                                                                                                                                                                                                                                                                                                                                                         TAATTCTCACATCCCTCTAAAAGTAAACTACTGTTAGGAACAGCAGTGTTCTCACAGTGT 2113
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                                 TGTCATGGACTGTTGCCACCATGTATTCATCCAGAGTTCTTAAAGTTTAAAGTTGCACAT
                                                                                                                                                                                                  YACTTAGGTAATTGTAGGGCGAGGATTATAAATVAAATTCSCAAAATCACTTAGCAGCAA
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                                                                   GHTRTAATATGCSACNGCGAAVMCTGAAYGCTACKCBACTCKGKDAATGATGGTKTCAGD
                                                                                                                                    CTGAACACAATTATCAACCACGTGGACAAAAACCAAMCCGAGCAGGGCTGTMCVAAACAWG
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/note="Organ: brain; Vector: pcMVSPORT 6; 1st strand cDNA
was primed with a NotI-oligo(dT) primer. Five prime end
enriched, double-strand cDNA was digested with Not I and
cloned into the Not I and EcoRV sites of the pCMVSPORT 6
vector. Library was not normalized."
a 195 c 221 g 266 t 36 others
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Pred. No. 1.3e-103;
1; Mismatches 28;
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Best Local
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                                                                                                                                         1689
                                                                                                                                                                                                                                                                                                                                                                     1031 GSTTTGATAATTGTT---GAGGGGRGRRRTGAAACAATGTGGAG-CCCCCYCTGATTGGT
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                                                                                                                                                                                                                                                                              975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Genoscope
Genoscope - Centre National de Sequencage
Bp 191 9106 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r For
more information about this cluster, see
http://www.genoscope.cns.fr/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 1201)

Li,W.B., Gruber,C., Jessee,J. and Polayes,D.

Full-length cDNA libraries and normalization
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AL572550.2 GI:31293927
EST.
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1201 bp mRNA linear EST 31-MAY-200 AL572550 Homo sapiens PLACENTA COT 25-NORWALIZED Homo sapiens CDNA Clone CSODI008YN07 3-PRIME, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cgi-bin/cluster.cgi?seq=CSODIO08CGO4NP1&cluster=6027.r. C Feng Liang Email: fliang@lifetech.com URL: http://filllength.invitrogen.com/InvitroGen Corporation Faraday Avenue Genoscope sequence ID: CSODIO08CGO4NP1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            On Feb 16,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
  TCAGCYCCTACCCTCTGTGCCAGGGCAGCATTTTCATATCCAARATCAATTCCCTCTCTC
                                        TCAGCTCCTA-CCTCTGTGCCAGGGCAGCATTTTCATATCCAAGATCAATTCCCTCTCTC 1806
                                                                                                                          GCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCAT-CCAGCAGTGTTGC 1747
                                                                                                                                                                                                                  CAAATGAATTTTCCACGCAGTTCTTTCCATGGGCATAGGTAAGCTGTGCCTTCAGCTGTT 1688
                                                                                                                                                                                                                                                                              TTT-GGGAAATGTGGAGAAGAGTCCCCTGC-TTGCAAACMTCAACCTGGMAAAAAKCCAA
                                                                                                                                                                                                                                                                                                                   TTTGGGGAAATGTGGAGAGAGAGAGGTGCCTGCTTTGCAAACATCAACCTGGCAAAAATGCAA 1628
                                                                                                                                                                                                                                                                                                                                                                                                                  GCTTTGATAATTGTTTGAGGGGAGGAGATGGAAACAATGTGGAGTCTCCCTCTGATTGGT 1568
                                                                                               GCAGATGAAATGTTCTGTTCMCCCTGCATTACATGTGTTTATTCATCCCAGCAGTGTTGC
                                                                                                                                                                                      CAMATGAATTTTCCACGCAGTYC-TTCCATGGGCATAGGTAAGCTGT-CCCTCARSTGTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /tissue_type="PLACENTA COT 25-NORMALIZED"
/clone lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/clone lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="Tist strand cDNA was primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and ECOR V
sites of the PCMVSPORT 6 vector. Library was normalized."
a 254 c 261 g 311 t 64 others
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/mol_type="mRNA"
/db_xref="taxon:9606"
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5', mRNA sequence.
BU146060
                                                                              Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                        Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (Dases 1 to 993)

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)
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                                                                                                                              Unpublished
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Homo sapiens
cDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
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/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/lab host="DHID8 (phage-resistant)"
/clone_lib="NIH_MGC_110"
/clone="Torgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Torgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/note: the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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                                                                                                                                                          GACCAAGATGGGGAGATCCTGCCGGGAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 1088
                                                                                                                                                                                                                                                                                                                                                           TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT
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                                                GGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCCAGGCTGTTCTCCAGGCTT 1380
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/db_xref="taxon:9606"
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/mol_type="mRNA"
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919 TAGAGCCTGATGGAGCCTTGGACC-GATGCCCTTGTGCCAGTGGCCAGTGGCCTCTGTGCCAGCCC
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Li,W.B., Gruber,C., Jessee,J. and Polayes,D. Full-length cDNA libraries and normalization Unpublished
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BX391733 Homo sapiens PLACENTA COT 25-NORWALIZED Homo
clone CSODIO36YN11 3-PRIME, mRNA sequence.
BX391733
                                                                                                                                                                                                                                                                                                                                                                                                                                                  http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSOBAI021ZG05 CS01959 1&cluster=6027.r.
Contact: Feng Liang Email: fliang@lifetech.Com URL:
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID: CSOBAI021ZG05_CS01959_1.
Location/Qualifiers
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BP 191 91006 EVRY cedex - France
BR 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r For
more information about this cluster, see
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                                                                     Similarity 97.4
94; Conservative
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                                                                                                                                                                              /tissue_type="PLACENTA COT 25-NORMALIZED"
/clone_Tib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/clone_Tib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="Ist strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."
a 261 c 213 g 192 t 11 others
                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODI036YN11"
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97.4%;
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BQ722575.1 GI:21861472
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AGENCOURT 8304969 Lupski sympathetic_trunk
IMAGE:6193228 5', mRNA sequence.
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Tissue Procurement: Dr. James R. Lupski
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM13596 row: i column: 05
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/note="Vector: pcmV-SPORT6 (Life Technologies); Sil
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Li,W.B., Gruber,C., Jessee,J. and Polayes,D. Full-length cDNA libraries and normalization Unpublished
                                                                                        cg1-bin/cluster.cg1?seq=CSODF004AD01QP1&cluster=6027.r. Contact
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSODF004AD01QP1.
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906 bp mRNA linear EST 12-MAY-2003
AL534481 Homo sapiens FETAL BRAIN Homo sapiens cDNA clone
CS0DF004YG01 5-PRIME, mRNA sequence.
                                                                                                                                                                                         Email: segref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r
more information about this cluster, see
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/clone lib="Homo sapiens FETAL BRAIN"
/clone lib="Homo sapiens FETAL BRAIN"
/note="Torgan: brain; Vector: pCMVSPORT 6; lst strand cDN
/note="Torgan: brain; Vector: pCMVSPORT 6; lst strand cDN
was primed with a NotI-oligo(dT) primer. Five prime end
enriched, double-strand cDNA was digested with Not I and
cloned into the Not I and EcoRV sites of the pCMVSPORT 6
vector. Library was not normalized."

266 c 274 g 153 t 4 others
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1 (bases 1 to 1007)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished
Contact: Robert Strausberg, Ph.D.
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High quality sequence stop: 575.
Location/Qualifiers
1..1007
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AGENCOURT 8073522 NIH_MGC_110
5', mENA sequence.
BU190800
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Tissue Procurement: ATCC
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EST.
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agenceutt Bioscience Corporation
Clone distribution: MGC clone distribution information can
                                                                                                                                                                                             ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC
                                                                           GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCCGATGAGTATGAAGTTGGCAGC
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                            TGCCAGCCCCACAGCCAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT
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ilarity 95.0%;
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/tissue_type="ductal carcinoma, cell line"
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/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/lab host="Valle (line line)
/tope="celle "NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/note="Corgan: panoreas; Vector: pOTB7; Site_1: XhoI;
/site_2: EcoRI; CDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by fing Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
99 a 261 c 297 g 250 t
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/db_xref="taxon:9606"
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Pred. No. 9e-99;
D; Mismatches 38;
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DEFINITION ORGANISM

laevis), AK004853 Mus musculus adult male liver cDNA, RIKEN f library, clone:1300002I07 product:dickkopf laevis), full insert sequence.

AKO04853 Carninci,P. and Hayashizaki,Y. High-efficiency full-length cDNA Meth. Enzymol. 303, 19-44 (1999) Meth. Enzymol. 99279253 Mus musculus Mus musculus (house mouse) Eukaryota; AK004853.1 GI:12836349 CAP trapper ; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus mRNA linear RIKEN full-ler homolog ength enriched 3 (Xenopus HTC 05-DEC-2002 Mus.

Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K., Itoh,M., Komo,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new

genes

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JOURNAL
REFERENCE
AUTHORS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Group Phase I & II Team.
Analysis of the mouse transcriptome of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
6 (bases 1 to 3357)
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                                                                                                                                                                                                                                                                        Submitted (10-UIL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Pax.81-45-503-9216)
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20499374
cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to
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   AACACAGACACGAAGGTTGGAAATAATACCATCCATGTGCACCGAGAAATTCACAAGATA
                                                                                                    GCTAAAGCATCATCAGAAGTGAACCTGGCAAACTTACCTCCCAGCTATCACAATGAGACC 446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACAAACATGCAGCGGCGCGCGGTATTTTGCTGTGTACACTGCTGGCGGCGGCGGCGGTCCCC
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/clone_lib="RIKEN full-length enriched mouse
/dev_stage="adult"
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2368 row: a column: 11
High quality sequence stop: 584.
Location/Qualifiers
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National Institutes of Health, M
Unpublished
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Tissue Procurement: ATCC
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//lab host="DH108 (phage-resistant)"
/clone_lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/note="Organ: pancress; Vector: pOTB7; Site_1: XhoI;
/note="Organ: pancress; Vector: pOTB7; Site_1: XhoI;
/note="Organ: pancress; Vector: pOTB7; Site_1: XhoI;
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Li,W.B., Gruber,C., Jessee,J. and Polayes,D. Full-length cDNA libraries and normalization Unpublished
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                                                                                                                                                                                                                                                                                                              Email: segref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r
more information about this cluster, see
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (human)
                                                                                                                                                                                                                              Feng Liang Email: fliang@lifetech
http://fulllength.invitrogen.com/
Faraday Avenue Genoscope sequence
Location/Qualifiers
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                                        234
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/mol type="mRNA"
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/clone="CSODF004YG01"
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/dev_stage="fetal"
/clone_llb="Homo sapiens FETAL BRAIN"
/clone_llb="Homo sapiens FETAL BRAIN"
/clone_Torgan: brain; Vector: pcMVSPORT_6; lst strand cDNA
/moce="Organ: brain; Vector: pcMVSPORT_6; lst strand cDNA
/mas primed with a NotI-oligo(dT) primer. Five prime end
enriched, double-strand cDNA was digested with Not I and
cloned into the Not I and EcoRV sites of the pCMVSPORT 6
vector. Library was not normalized."
34 a 189 c 207 g 250 t 16 others
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BQ878479.1
EST.
Homo sapiens
                                        BO878479
AGENCOURT 8064671 NIH_MGC_110
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sapiens
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  (human)
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9; Mismatches 18
                                                                  o Homo
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AGTTCTTCCCAKGGGCATAGGTAAGCTGTSCCTTCAGCTGTKGCAGATGAAATGTTCTGT
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CDNA, Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2360 row: i column: 22
High quality sequence stop: 686.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Robert Strausberg, l
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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National Institutes of Health, M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 871)
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                                                                                                                                     GCGCTGGGGGAAGCCTGCGGCTGCCGCCGCTGCACTGCTGGGAAGGGGAAGAGATTTAGATC 1208
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /tissue_type="ductal carcinoma, cell line"
/lab host="DHIOB (phage-resistant)"
/clone_lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
73 a 219 c 262 g 216 t 1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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(bases 1 to 985)
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BU196879 985 bp
AGENCOURT 8076102 NIH_MGC_110 H
5', mRNA Sequence
BU196879
BU196879.1 GI:22710863
EST.
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Robert Strausberg, | Email: cgapbs-r@mail.nih.gov Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection
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Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTTGACAGCATGAGGTGTTGTGCATTTTGTTCAGCTCCCCCAGGCTGTTCTCCAGGCTT
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/clone="IMAGE:6084891"
/tlosue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/tlosue_type="ductal carcinoma, cell line"
/tlosue_type="ductal carcinoma, cell line"
/tlosue_Toygan: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Toygan: pancreas; Vector: poTB7; Site_1: XhoI;
/note="Toygan:
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/db_xref="taxon:9606"
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Catarrhini; Hominidae;
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RESULT 24
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Matches 844;
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Local Similarity 98.3%;
nes 844; Conservative
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             BQ879213 mRNA lir
AGENCOMT 8229317 Lupski dorsal root ganglion
clone IMAGE:6183568 5', mRNA sequence.
BQ879213
BQ879213 GI:22271221
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Email: Cggpbs-r@mail.nih.gov
Tissue Procurement: Dr. James R. Lupski
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium
CDNA Library Arrayed by: The I.M.A.G.E. Consortium
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
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1 (Dases 1 to 936)

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)
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Plate: LLAM13571 row: f column: 17
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Location/Qualifiers
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/dev_stage="adult, 36 yr"
/lab_host="DH108"
/clone_lib="Lupski_dorsal_root_ganglion"
/clone_lib="Lupski_dorsal_root_ganglion"
/note="Vector: pCMV-SPORT6 (Life Technologies); Site_l:
NotI; Site_2: SalI; cDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
5'-TCGACCACGCTCCG-3' and
5'-GACTAGTTCTAGATCGCGAGCGGCGCCCT(15)-3'. Size selected >
1 kb for average insert length 1.7 kb. This is a primary
library, non-amplified. Library constructed by Life
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor Technologies."
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor Technologies."
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/sex="male"
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/db_xref="taxon:9606"
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Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.

1 (bases 1 to 901)
Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
Full-length cDNA libraries and normalization
Unpublished
On Feb 13, 2001 this sequence version replaced gi:12782762.
Contact: Genoscope
Genoscope - Centre National de Sequencage
Bp 191 9106 EVRY cedex - France
Bp 191 9106 EVRY cedex - France
                                                                                          Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSUDA01ZDA1ZDP1&cluster=6027.r. Contact
Feng Liang Email: fliang@lifetech.com URL:
http://fulllength.invitrogen.com/ Invitrogen: Corporation 1600
http://fulllength.invitrogen.com/ Invitrogen: Corporation 1600
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AL519269 Homo sapiens NEUROBLASTOMA Homo sapiens cDNA clone
CSODA012YB24 5-PRIME, mRNA sequence.
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                                                     Avenue Genoscope sequence ID : CSODA012DA12QP1.
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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                                                                                                                   ACCCCTGCCCGTGGAGGCGAGCTTTGCCATGAMCCCGCCARCCGGCTTCTGGACCTCAT
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/tissue type="NEUROBLASTOMA"
/clone lib="Homo sapiens NEUROBLASTOMA"
/clone Lib="Homo sapiens NEUROBLASTOMA"
/note="Vector: pCMVSPORT 6; 1st strand cDNA was primed /note="Vector: pCMVSPORT 6; 1st strand cDNA was primed double-strand cDNA was digested with Not I and cloned ithe Not I and EcoRV sites of the pCMVSPORT 6 vector.
Library was not normalized."
11 others
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Pred. No. 9.2e-97;
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Best Local Similarity
Matches 872; Conserv
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High quality sequence stop: 607.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CDNA Library Preparation: Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Robert Strausberg, Email: cgapbs-r@mail.nih.gov Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 906)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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BQ897122
BQ897122.1 GI:22289136
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                              GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC
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                                                                                                                                                                TGCCAGCCCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT
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                                                                                   GACCAAGATGGGGAGATCCTGCCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC
    183
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /tissue_type="ductal carcinoma, cell line"
/lab host="DH108 (phage-resistant)"
/clone_lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Torgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRi, thois is using the following 5' adaptor: GGCAGGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
83 a 227 c 271 g 225 t
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/mol_type="mRNA"
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Homo sapiens cDNA clone IMAGE:6085612
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                                                                        Email: cgapbs-r@mail.nih.gov

Tissue Procurement: ATCC
cDNA Library Preparation: Rubin Laboratory
cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agenocurt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2394 row: o column: 20
High quality sequence stop: 650.
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AGENCOURT_8346023 NIH_MGC_110
5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                 Mammalia; Eutheria; Primates; Ca
1 (Dases 1 to 898)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, N
                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia, Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (human)
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/organism="Homo sapiens"
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                                                               Location/Qualifiers
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ACAAATGAATTTTCCACGCAGTTC-TTTCCATGGGCATAGGTAAGCTGTGCCTT 1680
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/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
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Site_2: BCORI, CDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."
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                                   TITLE
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AK013622.1 GI:12851055
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The FANTOM Consortium and the RIKEN Genome Group Phase I & II Team.
Analysis of the mouse transcriptome based of 60,770 full-length cDNAs
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High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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1141 GTGTCCCCAAGTGTGGAATGGCCGCAGCTCCTTCCCAGTAGCTTTTCC 1100	CTGGCGGCGGCGGTCCCCACTGCTCCTTCCTCCTCCCGACGGTCACTTGGACTCC-GGC 123	Db 65 CIGGCGGCGGCGGTCCCCA
GTGTGCTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCTTCCT	248	400001299099099010 681 A&
	64	ъ
TGGACCAGGCTGTGGGTAGATGTGCAATTAGAAATAGCTAATTTATTTCCCCAGGT	GAGATGCAGCGGCTTGGGGCCACCCTGCTGTGCCTGCTG 188	Qy 129 GGCGGCTGCGGGCGCAGAC
	7e-96; hes 212;	Best Local Similarity 81.4%; Matches 967; Conservative
	Score 802; DB 11; Length 2123;	
	1 C C C C C C C C C C C C C C C C C C C	£
964 TTCATACAACTGCGCCAGGAGCTGGAAGACCCTGGAGGGCGGAGCCTAGCCCCAGAGATG 1023		40x a
1089 TTCATGGAGGAGGTGGGCCAGGAGCTGGAGGAGGACCTGGAGGGGCCTGACTGA	Qy .	polyA_site 2123
904 GACCACAGTGAGGAGAGCCAGCTGCCCCAGGGAGGCCCCGGATGAGTACGAAGATGTTGGC 963	Db	polyA_signal 2106 .2111
	xref="MGI:1354952"	putative" /db xref="MG
		match=2360)
	molog 3 (Xenopus laevis)	ļ
969 TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCCAAGCCGACCTTCGTGGGGAGCCGT 1028	adult"	/dev_stage="adult" misc feature 29, 1077
784 ACCTGGGAACTGGAAGGAAGCTTTGGACCGATGCCCCTGCGCCAGTGGCCTCCTA 843	clone_Tib="RIKEN full-length enriched mouse cDNA library" Db	/clone_lib="
909 ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC 968	Qy	/sex="male"
724 CCCCTGCCCGTGGAGGGAGAGCTCTGCCATGACCCCACCAGCCAG	con:10090" Db	/db_xref="taxon:10090"
		/db_xref="MG
849 CCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTCATC 908	91/6J" Ov	/strain="C57BL/6J" /db_xref="FANTOM_D
664 GATTGCCAGCCTGGCCTGTGTGTGCCCTTCCAAAGAGGCCTGCTGTTCCCCGTGTGCACA 723	NA"	/mol_type="mRNA"
=5	us musculus"	source 12123 /organism="Mus musculus
		Loc
604 GGTCACTGCACCCAAAAGGCCACCAAAGGTGGCAATGGGACCATCTGTGACCAGACCAGAGG 663	Loning sites, 5. end: Anoi; 3. end: Seci.	With Ahor and SETL. C Host: SOLR.
729 GGTCACTGCACCAAAATGGCCACCAGGGGCAGCAATGGGACCATCTGTGACAACCAGAGG 788	ATTAMATTAMICCCCCCCCCCCCCCCCCCCCCCCCCCCCC	GAGAGAGATTCTCGĀGTĪA
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544 GACCAGCAGATTATGCACCCGAGAGACAGTGAGTGAGTGA		prepared by using tre
669 GSCCAGAGGATGCTCTGCACCCGGGACAGTGAGTGCTGTGGAGACCAGCTGTGTGTG	prepare mouse cissues. First strand cown was primed with a primer (5' GAGAGAGAAGAAGAATCCAAGAGCTCTTTTTTTTTTTTT	[5' GAGAGAGAGATCC
484 TGTGGGCCCACCAGGTACTGCCAGTTCTCCAGCTTCAAGTACACCTGCCAGCCA	cal Animal Research in Riken contributed to Db	Division of Experimen
	er and Genome Science Laboratory in RIKEN.	Genomic Sciences Cent
		cDNA library was prep
424 ATTACATCTGTAGGGGATGAAGAAGGCAAGAGGAGCCATGAATGTATCATTGATGAAGAC 483	<pre>site (http://genome.gsc.riken.go.jp/) for</pre>	COMMENT Please visit our web site further details.
549 ATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAGCCACGAGTGCATCATCGACGAGGAC 608	Qy	
364 CAGGAAGTTCACAAGATAACCAACAACCAGAGTGGACAGGTGGTCTTTTCTGAGACAGTC 423	pan (E-mail:genome-res@gsc.riken.go.jp,	Kanagawa 230-0045, Ja
CGAGAATTCACAAGATAACCAACCAGACTGGACTGGTCTTTTCAGAGACAGTT	Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,	Exploration Research RIKEN Yokohama Instit
WAS THE CHANGE REPORTED FOR THE PROPERTY OF TH		
		TITLE Direct Submission
429 AGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAATACCATCCAT	<pre>amamura,T., Yasunishi,A., Yoshida,K., .M. and Hayashizaki,Y.</pre> <pre>Qy</pre>	Tejima, Y., Toya, T., Yoshino, M., Muramatsu
244 GAGGCGGAAGAAGCAGCTGCTAAAACGTCCTCTGAGGTGAACCTTGGCAAGCTTACCTCCC 303	Tagawa, A., SHITAXI, 1., SUGADE, 1., Tagawa, A., Takahashi, F., Tanaka, T., Db	Suzuki, H., Tagami, M.,
369 GAGGCAGAAGAAGCTGCTGATAAAGCATCAGAAGTGAACCTGGCAAACTTACCTCCC 428	Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata K. Shibata V. Shibacawa a Chiraki T. Socaba V.	Saito, H., Saito, R., S
184 GAGGTGGAGGAGCTGATGGAAGACACTCAGCACAAACTGCGCAGTGCCGTGGAGGAGATG 243	Matsuyama, T., Miyazaki, A., Nishi, K., Ohno M Okazaki V Okido T Owa C	Koya,S., Kurihara,C.,
309 GAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGGAAGAAGTG 368	<pre>(motani,K., Ishii,Y., Itoh,M., Izawa,M.,</pre>	Hiraoka,T., Hori,F., Kasukawa,T., Kato,H.,
124 GGACGGNNCCCAGCTCTCAACTACCCTCAGGAGGAAGCTACGCTCAATGAGATGTTTCGA 183	arninci,P., Fukuda,S., Fukunishi,Y., Db , Hara,A., Hayatsu,N., Hiramoto,K.,	Arakawa,T., Bono,H., Furuno,M., Hanaqaki,T
249 AAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGATGTTCCGC 308	Akahira,S., Akimura,T., Arai,A., Aono,H.,	REFERENCE 6 (bases 1 to 2123) AUTHORS Adachi,J., Aizawa,K.,
	(2002)	JOURNAL Nature 420, 563-573 (

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Tissue Procurement: ATCC
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1 (bases 1 to 879)
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GCGCTGGGGGAGCCTGCGGCTGCCCGCTGCACTGCTGGGAGGGGGAAGAGATTTAGATC
                                                                                                                                                                                          GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC
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/mol_type="mRNA"
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/clone="IMAGE:6209080"
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2_110 Homo sapiens cDNA clone IMAGE:6209080
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Plate: LLCM2395 row: k column: 21
High quality sequence stop: 684.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 940)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collect
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6251276"
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ACAAATGAATTTTTCCACGCAGTTCTTTCCATGGGCATAGGTAA
                                                                        TTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCT-GGCAAAAATGCA 1627
                                                                                                                                          GCTTTGATAATTGTTTGAGGNGAGGAGATGGAAACAATGTGGAGTCTCCCTCTGATTGGT
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/lab host="DH108 (phage-resistant)"
/clon=lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: ECORI; cDNA made by oligo-dT priming.
Directionally cloned into BCORI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Barkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
88 a 235 c 276 g 239 t 2 others
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shibata,K., Itoh,M., Aizawa,K., Nagaoka,S., Sasaki,N., Carninci,P. Konno,H., Akiyama,J., Nishi,K., Kitsunai,T., Tashiro,H., Itoh,M., Sumi,N., Tahii,Y., Nakamura,S., Hazama,M., Nishine,T., Hazada,A., Yamamoto,R., Matsumoto,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K., Fujiwake,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watchiki,M., Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsuura,S., Kawai,J., Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y. RIKEN integrated sequence analysis (RISA) system-38-format sequencing pipeline with 384 multicapillary sequencer Genome Res. 10 (11), 1757-1771 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K., Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new Senome Res. 10 (10), 1617-1630 (2000)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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Group Phase I & II Team.
Analysis of the mouse transcriptome based of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
6 (bases 1 to 2303)
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High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
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Nature 409 (6821),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Teurumi-ku, Yokoha Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fay:81-45-70-7012
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Please visit our web site (http://genome.gsc.riken.go.jp/)
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Tissue Procurement: ATCC
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National Institutes of Health, Mammalian Gene Collection
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[ [ [ [ bases 1 to ] 867] ]
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BQ689483.1 GI:21814799
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CDNA Library Preparation: Rubin Laboratory (CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
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GCGCTGGGGGAGCCTGCGGCTGCCGCCGCTGCACTGCTGGGAGGGGAAGATTTAGATC 1208
                                                                                                                                  GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC
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/nclome lib="NIH_MGC_110"
/nclome Torgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/nte="Torgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/nte="Torgan: pancreas; Vector: pOTB7; Sites using the place of the pancreas; Vector: sites using the place of the pancreas; Vector: Side using the laborator; GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

a 218 c 261 g 215 t
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/clssue type="ductal carcinoma, cell line"
/lab host="HH10B (phage resistant)"
/clone_lib="NIH_MGC_110"
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'db_xref="taxon:9606"
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                                                                                                                                                 http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSDDIO08CG04QP1&cluster=6027.r. Contact
cgi-bin/cluster.cgi?seq=CSDDIO08CG04QP1&cluster=6027.r. Contact
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSODIO08CG04QP1.
Location/Qualifiers
                                                                                                                                                                                                                                                                         Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r For
more information about this cluster, see
                                                                                                                                                                                                                                                                                                                                                           On Feb 15, 2001 this sequence version rep
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
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Query Match Best Local S Matches 862

Similarity

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                                                                       TTTCACACCCTTCCCGTKGRGGGGAGCTTTCCATKACCCGCCASCGGSTTTTGGACYTAT
                                                                                                                   TGT-GCACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTG
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1 (bases 1 to 165)

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
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                           TTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGGAGGAGGACTGAAGAAGATG
                                                                                               GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC
                                                                                                                             GACCAAGATGGGGAGAFCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 1088
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/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/lab host="DH108 (phage-resistant)"
/clone lib="NHH MGC Lil0"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Corgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/site_2: EcoRI; cDNA made by oligo-dT priming.
Site_2: EcoRI; cDNA made by oligo-dT priming.
Site_2: GCANA made by oligo-dT priming.
Site_2: GCANA made by oligo-dT priming.
Site_2: GCANA made by oligo-dT priming.
Library constructed by cling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
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/mol_type="mRNA"
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5', mRNA sequence.
BQ897670
                                                                                                                   found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLCM2319 row: j column: 13
                                                                                                                                                                                                              Contact: Robert Strausberg, Email: cgapbs-r@mail.nih.gov Tissue Procurement: ATCC
                                                                                                                                                                                                                                                              1 (bases 1 to 877)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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                                                                                                                                                           CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencurt Bioscience Corporation
Clone distribution: MGC clone distribution information can
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                                                                                      e: LLCM2319 row: j column: 13 quality sequence stop: 576. Location/Qualifiers
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/tissue_type="ductal carcinoma, cel
/lab_host="DH10B (phage-resistant)"
                                       /mol_type="mRNA"
/db_xref="taxon:9606"
                                                              organism="Homo sapiens"
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ilarity 97.5%;
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/note="Organ: pancreas," Vector: pCTB7; Site 1: XhoI;
Site 2: ECGRI; cDNA made by oligo-dT priming.
Directionally cloned into EcGRI/XhoI sites using the following 5' adaptor: GGCAGGAG(G). Library constructed by Ling Hong in the laboratory of Berald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."

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Pred. No. 1.9e-94;
0; Mismatches 16;
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EST.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.

1 (bases 1 to 883)
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AGENCOURT_8061767 NIH_MGC_110

5', mRNA sequence.
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National Institutes of Health,
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ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC 968
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                                                                         GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 240
                                                                                                                    GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 1088
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/db xxef="taxon:9606"
/db xxef="taxon:9606"
/clone="IMAGE:208520"
/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal taxon:96040;"
/clone_lib="NIH_MGC_110"
/forte="Torgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/forte="Torgan: potB7; Site_1: XhoI;
/forte="Torgan: potB7; Site_1: XhoI;
/forte="Torgan: potB7; Site_1: 
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Mammalia; Eutheria; Primates; C
1 (bases 1 to 892)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health,
                                                                                                                                                                                                                                                                                                                                                      Contact: Robert Strausberg, |
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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                                                                                                                                                                                                               found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                               Unpublished
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BQ889489
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLA
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information
                                                                                                                                                                  tate: LLCM2366 row: k column:
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| Location/Qualifiers
/organism="Homo sapiens"
/mol type="mRNA"
/db_xref="taxon:9606"
/clone="IWAGE:6208646"
/tissue_type="ductal carcinoma,
                                                                                                                                                                                                                                                                                                             Rubin Laboratory
The I.M.A.G.E. Consortium (LLNL)
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Catarrhini; Hominidae;
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sapiens cDNA clone IMAGE:6208646
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                                CAAATGAATTTT-CCACGCAGTTCTTTCCATGGG 1661
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CAAATGAATTTTCCCACGCAGTTCCTTTCCATGG
                                                                                                                     TTTGGGGAAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAAAAATGCAA 162E
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/clone lib="WIH MGC 110"
/clone lib="WIH MGC 110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5; adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superacript II RI (Life Technologies).
Note: this is a NIH MGC Library."
a 223 c 269 g 221 t
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Pred. No. 3e-94;
0; Mismatches 7;
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1 (bases 1 to 841)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Plate: LLCM2309 row: o column: 07
High quality sequence stop: 649.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGENCOURT 7974830 NIH_MGC_110 5', mRNA sequence.
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information ca
GCGCTGGGGGAGCCTGCCGCTGCCACTGCACTGGGAGGGGAAGAGATTTAGATC
                                                                                     GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC
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/mol type="mRNA"
/db_xref="taxon:9606"
/db_xref="taxon:9606"
/clone="IMAGE:602014"
/tissue_type="ductal carcinoma, cell line"
/tlab host="PH108 (phage-resistant)"
/clone lib="NIH MGC Il0"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRIXhol sites using the
following 5' adaptor: GGCACGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
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1_110 Homo sapiens cDNA clone IMAGE:6082014
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1 (bases 1 to 877)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                         Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLN
DNA Sequencing by: Agencourt Bioscience Corporation
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information
                                                                                                                                                                                                                                                                                                                                                                     BQ686534.1 GI:21811850
BQ686534.1 GI:21811850
EST.
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AGENCOURT_8034689 NIH_MGC_110
5', mRNA sequence.
                                                                                                           found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Plate: LLCM2362 row: n column: 02
High quality sequence stop: 692.
Location/Qualifiers
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/mol type="mRNA"

/db xref="taxon:9606"

/clone="IMAGE:6207169"

/clone="MAGE:6207169"

/clone="pype="ductal carcinoma, cell line"

/lab host="DH10B (phage-resistant)"

/clone_lib="NIH_MGC_110"
/clone_lib="N:
/note="Organ:
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 pancreas;
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Pred. No. 6.6e-94;
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ACAAATGAATTTT----CCACGCAGTTCTTTCCATGGGCATA 1665
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Directionally cloned into EcoRI/KhoI sites using the following 5 adaptor: GGCACGAG(0). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RZ (Life Technologies).
Note: this is a NIH MGC Library."

Note: this is a NIH MGC Library."
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cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LIN
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2364 row: i column: 04
High quality sequence stop: 691.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 (bases 1 to 870)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, N
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5', MENA sequence.
BQ689208
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Tissue Procurement: ATCC
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unpublished
                                                                                                                                                                                                                                                                                                                                          CCCCTGCCCGTGGAGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTCATC 908
                                                                                                                                             GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 1088
                                                                                                                                                                                      TGCCAGCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT
                                                                                                                                                                                                                TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGCAAGCCGACCTTCGTGGGGAGCCGT
                                                                                                                                                                                                                                                                                      ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC 968
GCGCTGAGGGAGCCTGCGGCTGCCGCTGCACTGCTGGGAGGGGAAGAGATTTAGATC
                                                                                          ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC
                           GCGCTGGGGGAGCCTGCGGCTGCCGCCGCTGCACTGCTGGGAGGGGAAGAGATTTAGATC
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                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                           /tissue_type="ductal carcinoma, cell line"
/lab host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
Site_2: EccRI; cDNA made by oligo-dT priming.
Directionally cloned into Both Company the following 5' adaptor: GGCAGCAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
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/db_xref="taxon:9606"
/clone="IMAGE:6207819"
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Pred. No. 7e-94;
0; Mismatches
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VERSION
KEYWORDS
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ORGANISM
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AUTHORS
TITLE
JOURNAL
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BQ688234
LOCUS
DEFINITION
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                                                                                                                                                                                                                                                                                                                   Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
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                                                                                                                                                                                                                                                                                                                                                      Contact: Robert Strausberg,
                                                                                                                                                                                                                                                                                                                                                                      Unpublished
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                                                                                                                                        organism="Homo sapiens'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GI:21813550
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883 bp mRNA
AGENCOURT 8063962 NIH_MGC_110 Homo sapiens
5', mRNA sequence.
BO68873'
                                                                                                                                                                                                                                                                                                                                                     CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information ca
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2364 row: h column: 02
High quality sequence stop: 680.
Location/Qualifiers
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1 (bases 1 to 883)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="mRNA"
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/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/site_1: EcoRI; cDNA made by old-dT priming.
Site_1: EcoRI; cDNA made by old-dT priming the
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed
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Query Match Best Local Matches

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5', mRNA sequence.
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223 c 263 g 221 t 1 others
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Pred. No. 2.8e-93;
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                       O Homo
                     sapiens
                                          mRNA
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                         linear EST 04-SEP-2002 cDNA clone IMAGE:6086034
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://inage.llnl.gov
Plate: LLCM2320 row: f column: 19
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Tissue Procurement: ATCC
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/lab host="DH103 (phage-resistant)"
/clone_lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/site_2: ECORI, cDNA made by oligo-dT priming.
Directionally cloned into ECORI/KhoI sites using the following 5' adaptor: GGCACAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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/mol_type="mRNA" "From / mol_type="mRNA" | From / mol_type="ductal carcinoma, cell line" / clone="fMAGE:592243" | / tissue_type="ductal carcinoma, cell line" / tissue_type="ductal carcinoma, cell line" / lab host="PH10B (phage-resistant)" | / lab host="PH10B (phage-resistant)" | / clone lib="NH1MGC 110" | / clone lib="NH1M MGC 110" | / clone Torgan: pancreas; Vector: pOTB7; Site_1: XhoI; / site_2: EcokI; CDNA made by oligo-dT priming. Site_1: XhoI; / cloned into EcokI/XhoI sites using the Directionally cloned into EcokI/XhoI sites using the following 5; adaptor: GGCAGCAG(G). Library constructed by fing Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZaP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
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Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSODF010AC03QP1.
Location/Qualifiers
1. .1201
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BP 191 91006 EVRY cedex - France
BP 191 91006 EVRY cedex - France
Email: segref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r
more information about this cluster, see
http://www.genoscope.cns.fr/
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Li,W.B., Gruber,C., Jessee,J. and Polayes,D. Full-length cDNA libraries and normalization
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AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTTGGCAAACT
                                       AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACT 420
                                                                                     TGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCA-SGCGGTGG
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/mol type="mann"
/db xref="caxon:9606"
/clone="CSODF010YE05"
/tissue_type="FETAL BRAIN"
/dev_stage="fetal"
/clone_lib="Homo sapiens FETAL BRAIN"
/clone_lib="Homo sapiens FETAL BRAIN"
/clone_Torgan: brain; Vector: pcMVSPORT_6; 1st strand cDNA
/note="Organ: brain; Vector: primer. Five prime end
/note="Organ: brain; Vector: primer. Five prime end
cloned was primed with a NotI-oligo(dT) primer. Five prime end
enriched, double-strand cDNA was digested with Not I and
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48 a 340 c 367 g 198 t 48 others
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AGENCOURT 8345155 NIH_MGC_110 Homo
5', mRNA sequence.
EQ686811
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collections of the 
                                                                                                                                                                                                                                                                                                                                                                                  CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2392 row: k column: 14
High quality sequence stop: 688.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tissue Procurement: ATCC
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Homo sapiens
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/clone="IMAGE:6250117"
/tissue_type="ductal carcinoma, cell line"
/lab_host="DH108 (phage-resistant)"
/clone_lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/clone="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Site_2: EcoRI; cDNA made by oligo-dT priming the
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed
                                                                                                                                                                                                                                                          /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LIN
DNA Sequencing by: Agencourt Bloscience Corporation
Clone distribution: MGC clone distribution information
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2367 row: p column: 01
High quality sequence stop: 683.
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Tissue Procurement: ATCC
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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/db_xref="taxon:9606"
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BU149760
BU149760.1 GI:22663292
EST.
                                                                                                                                                                                                                                               CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2320 row: o column: 17
High quality sequence stop: 647:
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 921)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens (human)
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AGENCOURT_8074878 NIH_MGC_110
                                                                                                                                                                                                                                                                                                                                                                                                   Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Robert Strausberg, Ph.D
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Jnpublished
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/lab_host="DH10B (phage-resistant)"
/clone lib="NHH MGC 110"
/clone lib="NHH MGC 110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
                                                                                                                                                                                 /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                  tissue_type="ductal carcinoma,
                                                                                                                                                                  clone="IMAGE:6086248"
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AGENCOURT 8343820 NIH_MGC_110 H

5', mRNA sequence.

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                                                                                                                                                                                              AACAAATGAATTTTCCACGCAGTTCTTTCCATGGG 1661
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Homo sapiens
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2388 row: o column: 06
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Tissue Procurement: ATCC
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Location/Qualifiers
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/db xref="taxon:9606"
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/tissue_type="ductal carcinoma, cell line"
/lab_host="Ductal carcinoma, cell line"
/tone_lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/fone="Corriginoma, pancreas; Vector: pOTB7; Site_1: XhoI;
/site_2: EcoRI; cDNA made by oligo-dT priming.
/forectionally cloned into EcoRI/XhoI sites using the
following 5; daptor: GGCAGGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

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AGENCOURT 7974356 NIH_MGC_110 Homo
5', mRNA sequence.
BUJ96968
BUJ96968.1 GI:22710952
EST.
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CDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
LIATE: LLCM2312 row: d column: 02
High quality sequence stop: 571.
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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/tissue_type="ductal carcinoma, cell line"
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/clone_lib="NIH MGC_110"
/clone_lib="NIH MGC_110"
/note="Torgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/ite_1: EcoRI, cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5; adaptor: GGCAGAGG). Library constructed by following 5; adaptor: GGCAGAGG). Library constructed by of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
89 a 223 c 271 g 222 t
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/db_xref="taxon:9606"
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Pred. No. 3.9e-92;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Robert Strausberg, Email: cgapbs-r@mail.nih.gov Tissue Procurement: ATCC
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NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGGCAGCATTTTCATATCC-AAGATCAATTCCCTC-TCTCAGCACAGCCTGGGGAGGGGG 1826
                                                                                                                                                                                             ТСАРА ОСТАТАТ В ТСАСТ СА ССТАССАТА СА СТЕТА В СТЕТА СТ
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       TATCAACCACGTGGAGAAAATCAAACCGAGCAGGGCTGTGTGAAACATGGTTGTAATATG 2364
                                                                                      TTGTAGGGGGAGGATTATAAATGAAATTTGCAAAATCACTTAGCAGCAACTGAAGACAAT
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/db_xref="taxon:9606"
/clone="IMAKE:6025929"
/clone="IMAKE:6025929"
/clone=type="epithelioid carcinoma"
/lab host="HH10B (phage-resistant)"
/clone_lib="NIH_MGC_70"
/clone_close"
/clone_spancreas; Vector: pCMV-SPORT6; Site_1: NotI;
/note="Organ: pancreas; Vectorinally. Primer: Oligo dT.
Average insert size 1.1 kb. Library constructed by Life
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Search completed: February 20, 2004, 01:31:06 Job time : 5357 secs

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Sequence 7473, Ap Sequence 7110, Ap Sequence 1, Appli Sequence 3, Appli Sequence 3, Appli Sequence 163, App Sequence 51, Appl Sequence 163, App Sequence 163, App

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Scoring table:
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GENERAL INFORMATION:
APPLICANT: Bass, Michael B
APPLICANT: Sullivan, John K
APPLICANT: Theill, Lars B
APPLICANT: Theill, Lars B
APPLICANT: Wang, Daguang
FITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
FILE REFERENCE: A-548
CURRENT APPLICATION NUMBER: US/09/161,241
CURRENT APPLICATION NUMBER: US/09/161,241
CURRENT FILING DATE: 1998-09-25
NUMBER OF SEQ ID NOS: 78
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
LENGTH: 1053
TYPE: DNA
ORGANISM: Human
US-09-161-241-2
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0; Mismatches 0;
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APPLICANT: Bass, Michael B APPLICANT: Sullivan, John K APPLICANT: Theill, Lars E APPLICANT: Theill, Lars E APPLICANT: Wang, Daguang TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES FILE REFERENCE: A-548 CURRENT FILING DATE: 1998-09-25 NUMBER OF SEQ ID NOS: 78 SOFTWARE: Patentin Ver. 2.0 SEQ ID NO 1 SEQ ID NO 1 SEQ ID NO 1 SEQ ID NO 1 CURGANISM: Mouse US-09-161-241-1 Query Match Best Local Similarity 83.9%; Pred. No. 2.8e-175; Matches 883; Conservative 0; Mismatches 167; Indels 3; Gaps 1;	Qy 1173 GCCGCTGCACTGCTGGGAGGGAAAGAGATTTAG 1205 Db 1021 GCCGCTGCACTGCTGGGAGGGAAAGAGATTTAG 1205 RESULT 2 US-09-161-241-1 ; Sequence 1, Application US/09161241 ; Parent No. 634454 ; GENERAL INFORMATION:	841 GTGTATGTGTGCAAGCCGACCTTCGTGGGAGACCCAAGAATGGGGAGATCCTGCTG 1053 CCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGCTTCATGGAGGAGGTGCGCCAGGAG	Db 661 GCCTTCCAGAGAGCCTGCTGTTCCTTGTGCACCACCCCCAGAGCCTAGAGCCTGAAGCCTGAAGCCTGTGTGCACCACCCTGCCCGTGAGAGCCTGATGAACCCCAGAGCCTTCTGGAACCTCATCACCTGGAAGCCTAGAAGCCTAATGAACCCCAAGCCAGACCTGAAGCCTAGAAGCCTAAGAGCCTAATGAACCCAAGCCAGACCTGAAGCCTAGAAGCCTAAAACCAAACCAAACCAAACCTGGAACCTTGTGCCAAGCCTGAAGCCTAGAACCCAAGCCTGAAGCCTAGAACCAAACCAAACCAAACCAAACCAAACCTGGAACCTTGTGCCAAGCCTCTCTGCCAAGCCCACAACCCAAGCCTGGAACCTTGTGCCAAGCCTCTCTCT	633 TITIGCCAGTACCACCAGCAGCAGCCAGGGGCCAAAATGGCCACCAGCAGTGCCAGCAGCAGCCAGC	361 ACCAGACTGACCAGATCATCAGAGACACTTATCAGAGAGACGAGAGAGA
10 10 8 9 7	OY 933 GCCTTGGACCGATGCCATGTGGCAGTGCTCTCTGGCAGCCCAGAGCCAGAGCCT OY 933 GCCTTGGACCGATGCCCTTGTGCCAGTGTGCAGACCCCAGAGCCTGAAGGCAAGCCTG 992 933 GCCTTGGACCGATGCCCTTGTGGCAGTGCAGCCCAGACCTGAAGGAA 992	633 TTTGCCAGCTTCCAGTACACCTGCCAGCCATGCCGGGGCCAGAGGATGCTCTGCACCCGG	Oy 453 GACACGAAGGTTGGAAATAATACCATCCATGTGCACCGAGAAATTCACAAGATAACCAAC	Qy 213 CCCGCCCCCCCGACGGCCGCCCCGGCTCCAGTCAAGCCCGGCCCGGCTCTCAGCTAC 272	QY 153 ATGCAGCGGCTTGGGGGCCACCCTGCTGCTGCTGCTGGCGGCGGGGGGGTCCCCACGGCC 212

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FILE REFERENCE: A-548
CURRENT APPLICATION NUMBER: US/09/161,241
CURRENT FILING DATE: 1998-09-25
NUMBER OF SEQ ID NOS: 78
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 77
LENGTH: 1050
TYPE: DNA
ORGANISM: Human
US-09-161-241-77
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Sequence 77, Application US/09161241

Patent No. 6344541

GENERAL INFORMATION:
APPLICANT: Bass, Michael B
APPLICANT: Sullivan, John K
APPLICANT: Theill, Lars E
APPLICANT: Wang, Daguang
TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
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Pred. No. 4.9e-157;
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US-08-905-223-215
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Patent No. 6222029
GENERAL INFORMATION:
                                                                                                                                                                                                       TELEFAX: (619) 235-017.
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 150 base pairs
TYPE: NUCLEIC ACID
TYPE: NUCLEIC ACID
                                                                                                                                                                                                                                                                                                    FILING DATE:
CLASSIFICATION: 536
ATTORNEY, AGENT INFORMATION:
NAME: ISTACLSCO, Ned A.
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
                                                                                                               TOPOLOGY: LINE/
MOLECULE TYPE: CI
ORIGINAL SOURCE:
ORGANISM: Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 92101-3505
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Win95
                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/905,223
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STREET: San Diego
CITY: San Diego
CTATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Lacroix, Bruno
TITLE OF INVENTION: 5' ESTS FOR
NUMBER OF SEQUENCES: 503
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LOCATION: 12..143
IDENTIFICATION METHOD: blast
OTHER INFORMATION: identity
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                                                             NAME/KEY: other
                                                                                                 TISSUE TYPE:
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501 West Broadway
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3: Brain
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                                                                                                                                                                                                                                                  Sequence 14, Application US/08232463
Patent No. 5670367
GENERAL INFORMATION:
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Best Local Similarity
Matches 137; Conserv
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OTHER INFORMATION: ider
OTHER INFORMATION: regi
OTHER INFORMATION: id,
OTHER INFORMATION: est
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IDENTIFICATION METHOD:
OTHER INFORMATION: ider
OTHER INFORMATION: region
OTHER INFORMATION: id worther information: est
                                                                                                     APPLICANT: DORNER, F.
APPLICANT: SCHEIFLINGER, F.
APPLICANT: FALKMER, F. G.
TITLE OF INVENTION: RECOMBINANT FOWLFOX VIRUS
NUMBER OF SEQUENCES: 52
                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
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IDENTIFY TO METHOD: blastn
OTHER INFORMATION: identity 95
OTHER INFORMATION: region 1..1
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ATION METHOD: blastn
ORMATION: identity 98
ORMATION: region 346..465
ORMATION: id H99266
                1800 Diagonal Road, Suite 500
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67..114
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RESULT 6
US-09-461-325-118
; Sequence 118, Application US/09461325A
; Patent No. 6475753
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CLONE: P
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Matches
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APPLICATION NUMBER: EP 91 114
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 3047
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Alexandria
STATE: VA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 7218 base pairs
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                                                                                                                                                                                                                                                                                                                                                                                                           637
                                                                                                                                                                 517 AGACTGGACAAATGGTCTTTTCAGAGACAGTTATCACATCTGTGGGAGACGAAGAAGGCA 576
                                                                                                                                                                                                                                      457
                                                                                                                                                                                                                                                                                                        397
                                                                                                                                                                                                                                                                                                                                                                        337 AGCACAAATTGCGCAGCGCGGTGGAAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCAT 396
                                                                                                                                                                                                                                                                                                                                                                                                                                              277 AGGAGGAGGCCACCCTCAATGAGATGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGC 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                         CAAGCTCCCTCGAC 1049
                               CCACCTTCCAGTAC 650
                                                                 GAAGGAGCCACGAGTGCATCATCGACGAGGACTGTGGGCCCAGCATGTACTGCCAGTTTG 636
                                                                                                                                   CGAAGGTIGGAAATAATACCATCCATGTGCACCGAGAAATTCACAAGATAACCAACAACC 516
                                                                                                                                                                                                                                                                                                        CATCAGAAGTGAACCTGGCAAACTTACCTCCCAGCTATCACAATGAGACCAACACAGACA 456
                                                                                                                                                                                                                                                                                                                                         899149
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (703)683-4109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2.0%; Score 52.4; DB 1; ilarity 2.9%; Pred. No. 0.012; Conservative 216; Mismatches 147;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (703)836-9300
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LICANT: Ruben et

94 Human Secreted Proteins

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SEQ ID NO 118
LENGTH: 882
                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 16, Appli
Patent No. 6117654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                        SEQ ID NO 16
                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER FILING DATE: 1998-07-02
EARLIER APPLICATION NUMBER: US 60/054,646
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ. ID NOS: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TILE REFERENCE: PZ029P1

CURRENT APPLICATION NUMBER: US/09/461,325A

CURRENT FILING DATE: 1999-12-14

EARLIER APPLICATION NUMBER: PCT/US99/13418

EARLIER FILING DATE: 1999-06-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EARLIER APPLICATION NUMBER: 60/089,509
EARLIER FILING DATE: 1998-06-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ARLIER APPLICATION NUMBER: 60/
ARLIER FILING DATE: 1998-06-16
ARLIER APPLICATION NUMBER: 60/
                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Pan, Yang
TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
TITLE OF INVENTION: AND USES THEREOF
TILE REFERENCE: 09404/052001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: SITE
LOCATION: (117)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ARLIER APPLICATION NUMBER: 60/089,510
ARLIER FILING DATE: 1998-06-16
ARLIER APPLICATION NUMBER: 60/090,112
ARLIER FILING DATE: 1998-06-22
ARLIER APPLICATION NUMBER: 60/090,113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(152331)
                                                                  TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                  ENGTH: 152331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
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OF SEQ ID NOS: 532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       422 GGAACAACACCCTCTCCAGCCACYTCCAGATCGACAAGATGACCGACAACAAGACAGGAG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                            FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGGACTTCCGGGGGCCTCCCTGGGAACTACCACAAAGAGGAGAACCAGGAGCACCAGCTGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/09128155
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Pred. No. 0.0065;
Mismatches 75;
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                                                                                                                                                                                                           COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC_DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/665,259
FILING DATE: 17-JIN-10-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19, Application US/08665259
Patent No. 6028173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: n = A, T, C or G
                                                                                          INFORMATION FOR SEQ ID NO:
STRANDEDNESS:
TOPOLOGY: lir
MOLECULE TYPE:
                                                                                                                      NAME: Dugan, Deborah A.
REGISTRATION NUMBER: 37.315
REFERENCE/DOCKET NUMBER: IG
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508) 872-8400
                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                             CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                PPLICANT: COMMONDATE TO SEPTICANT: Dackowski, William A.
PPLICANT: Van Raay, Terence J.
PPLICANT: Klinger, Katherine W.
APPLICANT: Klinger, Katherine W.
APPLICANT: NOVEL HUMAN CHROMOSOME 16
                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE:
                                                        LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 124 GGGGCGGCGGCTGCGGGCGCAGAGCGGAGATGCAGCGGCTTGGGGCCACCCTGCTGCC 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                Massachusetts
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                                                                                                                                                                                                                                                                                                                                                                                                             One Mountain Road
                                                                                                          (508)
                                                                                                                                                                                                                                                                                                                                                                United States of America
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 DNA (genomic)
                              single
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                                                                                                       5415
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Pred. No. 0.078;
                                                                                                                                                    IG5-9.1
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Best Local
          CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 08/665,259
FILING DATE: 17-UN-1996
PRIOR APPLICATION UNMBER: PCT/US96/10469
FILING DATE: 17-UN-1996
APPLICATION UNMBER: PCT/US96/10469
APPLICATION ONMBER: 37,315
AREGISTRATION NUMBER: 37,315
REGISTRATION NUMBER: 1G5-9.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508) 872-8400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
COMPUTER: Floppy FC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES: 83
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENZYME CORPORATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Klinger, Katherine W.
TITLE OF INVENTION: NOVEL HUMAN CHROMOSOME 16 GENES,
TITLE OF INVENTION: COMPOSITIONS, METHODS OF MAKING AND USING SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
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                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/01
FILING DATE: 09-DEC-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGCAGCCGGGAGGAGGCGGCGGGCCCGTGCACCGCAGGCCCCGCCCACGGCCCTTC 2805
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Landes, Gregory M.
Burn, Timothy C.
Connors, Timothy D.
Dackowski, William R.
Van Raay, Terence J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   One Mountain Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                           United States of America
(508) 872-5415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.9%;
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Pred. No. 0.073;
0; Mismatches 150; Indels
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US-07-751-891B-24/c
                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24, Application US/07751891B Patent No. 6180337 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 155;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
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COMPUTER READABLE FORM:

MEDIUM TYPE: FLORDYY disk

COMPUTER: 1EM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Vers
SOFTWARE: Patentin Release #1.0, Vers
APPLICATION NUMBER: US/07/751,891B
FILING DATE: 29-Aug-1991
CLASSIFICATION: UNFORMATION:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5350
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 6803 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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ADDRESSEE: Thomas
                                                                                                                                                                                                                                                                                                                Fu, Ying-hui
TITLE OF INVENTION: Diagnosis of the Fragile X Syndrome
NUMBER OF SEQUENCES: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3040
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGCCTCCGCGGGGCGGAGGCÁCCGGGAAGCGGGGGGGGGCGACGCCTGTCATCGCTCTAGGCCCA 2925
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COUNTRY: U.S.A.
                                                                                                                                                                                                                                                       CITY: Houston
                                                                                                                                                                                                            ZIP: 77010-3095
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Oostra, Ben A.
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Nelson, David L.
                                                                                                                                                                                                                                                                                                                                                                                         Pieretti,
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                                                                                                                                                                                                                                                                     1301 McKinney,
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                                                                                                                                                                                                                                                                                   Thomas D. Paul
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Pred. No.
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                                                                                                                                                                                                                                                                      Suite 5100
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0.073;
                                                                                                                                        Version
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RESULT 11
US-07-751-891B-23/c
US-07-751-891B-23/c
; Sequence 23, Application US/07751891B
; Patent No. 6180337
; Patent No. 6180337
; GENERAL INFORMATION:
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Best Local Similarity 47.9%;
Matches 139; Conservative
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INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
                                                                              ZIP: 77010-1095
ZIP: 77010-1095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-POS/MS-POS
SOFTWARE: Patentin Release #1.0, Vers
FORTWARE PATENTIN Release #1.0, Vers
OURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/751,891B
FILING DATE: 29-Aug-1991
CLASSITICATION: <Unknown>
ATTORNEY/AGENT INFORWATION:
NAME: Bail Theoryacing
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5350
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Diagnosis of the NUMBER OF SEQUENCES: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear MOLECULE TYPE: DNA (genomic) SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Thomas D. Paul
STREET: 1301 McKinney, Su
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
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Costra, Ben A.
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Nelson, David L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Stephen T
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Pred. No. 0.041;
0; Mismatches 151;
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                                                                                                                                                                                        Version
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US-09-252-991A-9441
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PRIOR APPLICATION NUMBER: US of PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 9441
LENGTH: 1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 9441, Application US/09252991A Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 131; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPE
FILE REFERENCE: 107196.136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/252,991A CURRENT FILING DATE: 1999-02-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER:
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SEQUENCE CHARACTERISTICS:
LENGTH: 5222 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Sin
hes 139;
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SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear MOLECULE TYPE: DNA (gi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2626 CGGAAGTGAAACCGAAACGGAGCTGAGCGCCTGACTAGGGCCGAACCCCC
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                                                                                                                                                                                                                                                                                                     831 GCGGGCGCCGTCCTGGCGCGCCGGCCAGCCATGCGCGGCCGCTGCGTATCGAGGCCCTGGT 890
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                                                                     184 TGCTGCTGGCGGCGGCGGTCCCCACGGCCCCCCGCGCCCCGACGGCGACCTCGGCTC 243
                                                                                                                                                                                                                                                                                                                                                                           64 GCGGCCTCCCGGCGGAGCGAGCAGATCCAGTCCGGCCCGCAGCGCAACTCGGTCCAGTC 123
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 eccececaciones de la constant de l
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CGGTGCGCGGCGACGCGTTCCCCGCCTTGCCGGCGGAGCCTGCGACCGTGGCCGCGGCGG 1009
                                                                                                                                                                                                                            GGGGCGGCCTGCGGGCGCAGAGCGGAGATGCAGCGGCTTGGGGCCACCCCTGCTGTGCC
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ilarity 47.9%;
Conservative
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UMBER: US 60/094,190
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 47.4; DB 4;
Pred. No. 0.079;
0; Mismatches 121;
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US-09-252-991A-9392/c
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; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-9392
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LENGTH: 1890
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CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR PILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT: "...",
APPLICANT: Hiles, Ian
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS,
TITLE OF INVENTION: PREPARATION AND USE
TITLE OF INVENTION: PREPARATION AND USE
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o. 5792849
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                                                                                                                                                                                              Goodearl, Andrew
Stroobant, Paul
Minghetti, Luisa
Waterfield, Michael
Marchionni, Mark
Chen, Maio Su
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51.8%;
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Pred. No. 0.096;
0; Mismatches 121; Indels
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Best Local (
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY AGENT INFORMATION:
NAME: Bieker-Brady, Kristina
REGISTRATION NUMBER: 39,109
REFERENCE/DOCKET NUMBER: 0456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
OTHER INFORMATION:
OTHER INFORMATION:
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TELEPHONE: 617-428-0200
TELEFAX: 617-428-7045
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PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
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STRANDEDNESS: single
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APPLICATION NUMBER: 07/9
FILING DATE: 23-OCT-1992
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APPLICATION NUMBER: U.K.
FILING DATE: 10-APR-1991
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                                                                                                    334 CGCAGCACAAATTGCGCAGCGCGGTGGAAGAGATGGAGGCAGAAGAAGCTGCTGC 388
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                                                                                                                                                                                                                                                                                                            CGCAGGAGGAGGCCACCCTCAATGAGATGTTCCGCGAGGTTGAGGAACTGATGGAGGACA
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03-APRIL-1992
U.K. 91 07566.3
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RESULT 15 US-08-734-591A-21

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; FEATURE:
; COTHER INFORMATION: N in positions 31 and 32 could
; OTHER INFORMATION: either A or G.
US-08-734-591A-21
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Patent No.
Query Match 1.8%; Score 47; DB 2; Length 2003; Best Local Similarity 47.5%; Pred. No. 0.12; Matches 140; Conservative 0; Mismatches 155; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: ISM Compatible Pentium
OPERATING SYSTEM: Windows95
SOFTWARE: Worderfect (Version 7.0)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/734,591A
FILING DATE: 22-OCT-1996
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/470,335
FILING DATE: 06-JUN-1995
PRIOR APPLICATION NUMBER: 08/036,555
PRIOR APPLICATION NUMBER: 08/036,555
FILING DATE: 03-MAR-1993
PRIOR APPLICATION NUMBER: 07/965,173
APPLICATION NUMBER: 07/965,173
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/907,138
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/963,703
FILING DATE: 03-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 91 07566.3
                                                                                                                                                                                                                                                                                                      TELEX:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
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ADDRESSEE: Clark & Elbing LLP
                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Bicker-Brady, Kristina REGISTRATION NUMBER: 39,109 REFERENCE/DOCKET NUMBER: 0456 TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 428-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
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                                                                                                                                                                                                      TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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o. 5854220
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Minghetti, Luisa
Waterfield, Michael
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Marchionni, Mark
                                                                                                                                                                                                                                                                                                                                                                                       (617) 428-7045
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479 TGCAGGAGCTAGCTCAGCGCGCGCGGTGGTCATCGAGGGAAAGGTGCACCCGCAGCGGC
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                                                                                                                                                419 ACGAGGCGGCTCCCGCGGGGGCCTCGGTGTGCTACTCGTCCCCGCCCAGCGTGGGATCGG
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                                                                            538
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Search completed: February 19, 2004, 21:20:51 Job time : 161 secs

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Title:
Perfect score:
Sequence:
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No.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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     protein search, using sw model
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1: \SIDS1/gcgdata/geneseq_yenebl/AA1980.DAT:*
2: \SIDS1/gcgdata/geneseq_yenebl/AA1981.DAT:*
2: \SIDS1/gcgdata/geneseq_yenebl/AA1982.DAT:*
3: \SIDS1/gcgdata/geneseq_yenebl/AA1982.DAT:*
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6: \SIDS1/gcgdata/geneseq_yenebl/AA1985.DAT:*
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8: \SIDS1/gcgdata/geneseq_yenebl/AA1987.DAT:*
9: \SIDS1/gcgdata/geneseq_yeneseqp_embl/AA1987.DAT:*
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11: \SIDS1/gcgdata/geneseq_yeneseqp_embl/AA1987.DAT:*
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length: 2000000000
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        is the number of results predicted by chance to have a ater than or equal to the score of the result being printed, rived by analysis of the total score distribution.
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Copyright (c) 1993 - 2004 Compugen Ltd
                                                                                                                                                                                                                                                                    Length
        333555555
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(without alignments)
740.724 Million cell updates/sec
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Human DKR-3. Homo Human DKK-3 protei Human DKK-3 protei Human PRO295. Hom Human PRO295 protei Human RO295 protei Human angiogenesis Human Tumour Endot
                                                                                                                                                                                                                                                                       Description
                                                                                                                                                                                                              Homo sapiens cereb
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8	6	24	σ	• *	74.
eted	5	24	σ		.4
ncer-re	200	24	g		74.
tec		24	σ		74.
lod		24	σ		74.
PRO100		22	σ	•	74.
ein	2	22	σ	•	74.
٠	AAY92071	21	9		74.
seq	8	21	σ	•	74.
NO) 80	4.	21	σ	٠	74.
1008	4	20	266	9.3	4.
Human cysteine-ric		19	9		74.
rotein	177	24	224	ŗ	14.
4 protein.		24	Ν	۲.	14.
.4	AAY92075	21	224	٢	14.
acid sec	8	21	Ν		14.
n cyst	AAW73017	19	N	۳.	14.
R-3.	AAY92069	21	4	٠.	58
rine D		21	4	.4	58
ŭ	73	19	4	Α.	28
Ω		21	υı	œ	85
Human cysteine-ric	1.1	19	ŲΠ	œ	85
m		20	v	ω.	87
tumour end	ũ	24	σ	00.	88
secre	ũ	24	ψ	00.	88
rotei	ũ	24	σ	80.	88
a		24	ū	80.	88
secreted/	õ	24	Ç	00.	88
secrete		24	ຫ	00.	88
Human PRO polypept		24	S	00.	88
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n PRO polyp	5	24	350		1880
human secre	9D	24	U	00.	88
Human PRO295 prote	ABB84841	23	υī	00.	88

ALIGNMENTS

AAW62595 standard; Protein; 350

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ARWESULT 1
ARWESE STANKERS STA
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Peptide
                                            Ruben SM,
                                                                                                                                                                                                                                    20-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                       02-JUL-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9827932-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            atherosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CESP; cerebellum and embryo specific protein; restenosis; myocardial infarction; arrhythmia; heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens cerebellum and embryo specific protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09-NOV-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAW62595;
                                                                                                                                           (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                         18-DEC-1997;
                                            Soppet DR;
                                                                                                                                                                                                                                         96US-0033870.
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Key

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The sequence is that of cerebellum and embryo specific protein (CESS). CESP is involved in: (i) the regulation of collateral CC circulation (particularly in the heart), coronary artery restenosis CC following a revascularisation procedure, apoptosis in mycoytes; (ii) the CC modulation of mycoyte development in the developing heart; (ii) CC regulation of circulating blood volume, vascular tone, blood pressure and CC cardiac output, diuresis, natriuresis; (iii) facilitation of transudation CC or plasma water to the interstitium, and (iv) inhibition of the release CC or action of hormones such as aldosterone, angiotensin II, endothelins, CC mycardial infarction, coronary artery thrombus or occlusion, CC mycardial infarction, atrial and/or ventricular arrhythmias, heart CC block, hereditary medial necrosis of small coronary arteries, cardiomyopathy, arrhythmogenic right ventricular dysplasia, athero-CC sclerotic heart disease, venous thrombosis or Reynaud's syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 350
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N-PSDB; AAV38798.
                                                        DKR-3; human rig-like 7-1 mRNA; chicken lens fiber protein; clfest dkk-1; dickkopf-1; antagonist; wnt-8 signaling; morphogenesis; growth factor; cytostatic; sonic hedgehog; tissue differentiation.
                                                                                                                                                                      01-AUG-2000
                                                                                                                                                                                                           AAY92070;
                                                                                                                                                                                                                                             AAY92070 standard;
                     sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NOTGOMVESETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DSECCGDQLCVWGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DSECCGDQLCVWGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFFVCTPLPVEGEL
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                                                                                                                                                                                                                                                                                                                                       PREVPDEYEVGSFMEEVROELEDLERSLTEEMALGEPAAAAAALLGGEEI
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CC The human DKR-3 open reading frame has homology to human rig-like 7-1 CC The human DKR-3 open reading frame has homology to human rig-like 7-1 CC mRNA and to chicken lens fiber protein clfest 4 gene. Human DKR-3 CC appears to be secreted, with a signal peptide cleavage site after either amino acid 20 or 21.

CC DKR-1 is a human ortholog of dkk-1 (dickkopf-1), a novel gene identified CC in Xenopus and mouse, purportedly an antagonist of wnt-8 signaling. CC DKR-2, -3 and -4 are each related to DKR-1 by their cysteine pattern. CC DKR-1 is also involved in morphogenesis in the developing embryo, and therefore a growth factor, by inference DKR polypeptides are also compared to the properties are useful for treating cancer, CC growth factors. The DKR polypeptides are useful for treating cancer, CC e.g. mammary tumors, stem cell tumors, or other cancers in which the wnt CR mammary tumors, stem cell transduction pathways are activated. CC rhey can also be used to enhance tissue differentiation, such as bone cc compared to the compared to cell formation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New nucleic acid molecule encoding a biologically active DKR polypeptide, useful in treatment of cancer, e.g. mammary tumm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Region
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Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 18; Page 126-127; 143pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    stem cell tumors
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  350 AA;
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204
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/note= "putative"
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'note= "putative"
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Query Match Best Local Sim Matches 350;

Similarity

100.0%;

Score 1880; DB 21; Pred. No. 6.5e-149; Mismatches 0;

Indels Length

Gaps

60 0

350; , ,

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24-FEB-2000; 2000GB-0006285.
15-MAR-2000; 2000GB-0028734.
24-NOV-2000; 2000GB-0028734.
28-NOV-2000; 2000US-0724391.
08-DEC-2000; 2000US-073630.
12-DEC-2000; 2000US-0750395.
                                                                                                                                                                                                     WPI;
This invention describes a novel method for detecting the presence of schizophrenia associated features (SFs) and schizophrenia associated protein isoforms (SPIs) in samples, e.g. by electrophoresis, immunoassay or hybridisation assay, for diagnosing and monitoring schizophrenia, studying the effectiveness of treatments and for identifying potential therapeutic agents. The products of the invention have neuroleptic
                                                                                                   Claim 1a;
                                                                                                                            Diagnosing and monitoring Schizophrenia by detecting the presence of Schizophrenia Associated Protein Isoforms in samples of cerebrospinal fluid -
                                                                                                                                                                                          N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DKK-3; detection; schizophrenia; neuroleptic; vaccine; gene therapy; neuralgic defect; neuropsychiatric disorder; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human DKK-3 protein
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                                                                                                                                                                                                                                                                (OXFO-) OXFORD GLYCOSCIENCES UK LTD
                                                                                                                                                                                        2001-570652/64.
DB; AAI69309.
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                                                                                                    Fig 1; 91pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cc activity and can be used in vaccines or for gene therapy. The method (I) is used: (1) for screening or diagnosis of schizophrenia and the relative cabundance of at least 1 chosen feature correlates with the presence or absence of schizophrenia and for monitoring the effect of therapy cadministered to a subject with schizophrenia and the relative abundance of at least 1 chosen feature which correlates with the severity of conjecules (e.g. secondary messengers) are studied to diagnose schizophrenia, monitor the progress of the disorder and the effectiveness of treatment and as targets to identify and produce potential therapeutic agents for the treatment of schizophrenia. The paucity of detectable consequently defects distinguishes neuropsychiatric disorders such as schizophrenia from neurological disorders, where manifestations of canatomical and biochemical changes have been identified in many cases. Consequently the identification and characterisation of cellular and/or molecular causative defects and neuropathies are necessary for improved treatment of neuropsychiatric disorders. This sequence represents the consequents the method of the invention.
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                                 PREVPDEYEVGSFMEBVRQELEDLERSLTEEMALGEPAAAAAALLGGEEI
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RESULT 4
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   01-SEP-1999;
15-SEP-1999;
                                                                                                                                     Human;
                                                                                                                                                           Human PRO295
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                                                                                                                                                                                                            AAB87529;
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                                                               08-MAR-2001
                                      24-AUG-2000;
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)B; AAH45489, AAH45490,
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                                                                                                                                                                                                                                                                                                                                                                                            DSECCGDQLCVWGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL
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99WO-US21090
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Pred. No. 6.5e-149;
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as an antiviral agent
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09-DEC-1999; 99US-0170262.
11-JAN-2000; 2000US-0175481.
18-FEB-2000; 2000WO-US04341.
18-FEB-2000; 2000WO-US04342.
22-FEB-2000; 2000WO-US04414.
01-MAR-2000; 2000WO-US05601.
03-MAR-2000; 2000WS-0187202.
25-APR-2000; 2000US-0199397.
22-MAY-2000; 2000US-0199397.
22-MAY-2000; 2000US-0209832.
                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence is a human PRO polypeptide (secreted and transmembrane). The PRO protein, and PRO agonists, PRO antagonists or anti-PRO antibodises are useful for preparation of a medicament useful in the treatment of a condition which is responsive to the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO protein may also be employed as molecular weight markers for protein electrophoresis. The PRO coding sequence has applications in molecular biology, including use as hybridisation probes, and in chromosome and gene mapping.
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Grimaldi
                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eighty four nucleic acids encoding PRO polypeptides, useful implecular biology, including use as hybridization probes, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chromosome and gene mapping.
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 PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAAALLGGEEI
                          PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAALLGGEEI
                                                       CHDPASRLLDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL
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Human

PRO295 protein

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Query Match
Best Local Sim
Matches 350;
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Filvaroff E, For
Godowski PJ, Gri
Mather JP, Pan
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15-SEP-1999;
05-OCT-1999;
29-NOV-1999;
30-NOV-1999;
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28-JUL-1999;
08-SEP-1999;
                                                                                                                                                                                                 The present sequence is one of sixty one novel secreted and transmembrane PRO polypeptides. The PRO polypeptides are useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair, cardiovascular disorders (e.g. endometrial bleeding angiogenesis, isohaemias such as coronary ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis), infertility, ALDS and diabetes and retinal disorders such as retinitis pigmentosum. The PRO nucleic acids have applications in molecular biology, including use as hybridization probes, and in chromosome and gene mapping.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory; antiparkinsonian nootropic, neuroprotective; vulnerary; cardiant; antiangiogenic; vasotropic; antiasthmatic; antirhumatic; cancer; antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes; ophthalmological; gene therapy; skin disease; gastrointestinal disorder; ophthalmological; gene therapy; skin disease;
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05-JAN-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sixty one nucleic acids encoding PRO polypeptides which are useful in the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's disease)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI;
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DB; AAF72413.
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                                                                                                       Similarity
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MORLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
                    MQRLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
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nilarity 100.
Conservative
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Fong S, Gao W, Gerber H,
Grimaldi CJ, Gurney AL, I
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99WO-US23089
99WO-US28114
99WO-US28313
99WO-US30095
99WO-US30091
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                                                                            Score 1880;
Pred. No. 6.5
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H, Hillan KJ, I
Stewart TA,
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6.5e-149;
1es 0;
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Kljavin IJ;
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ME, Goddard
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                       14-MAY-1999

12-JUN-1999

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16-FEB-2000

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22-JAAY-2000

02-JAAY-2000

02-JAY-2000

02-JUN-2000

02-JUN-2000

01-JUN-2000

11-JEC-2000

01-DEC-2000
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29-APR-1998;
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2000WO-US04341
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2000WO-US08439
2000WO-US14042
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98WO-US19330.
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99WO-US10733.
99WO-US12252.
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99WO-US30720.
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20-JUN-2001;
29-JUN-2001;
09-JUL-2001;
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Grimaldi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 20; Fig 8; 399pp; English.
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                                                                                                Sequence
                                                             al Similarity
350; Conser
TQHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                           MORLGATLLCLLLAAAVETÄPÄPÄPÄTATSÄPVKPGPÄLSYPQEEÄTLNEMFREVEELMED
                                      MQRIGATILICILILAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATINEMFREVEEIMED
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; 2001WO-US21735.
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Pred. No. 6.5e-149;
Mismatches 0;
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24-OCT-2000;
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30-MAY-2001; 2001US-0876574.
30-MAY-2001; 2001WO-US17443.
01-JUN-2001; 2001WO-US17800.
20-JUN-2001; 2001WO-US19692.
28-JUN-2001; 2001WO-US00000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Baker KP, Ferrey A. Godowski PJ, Gurney A.
                                                                                                                                                                                                                                                                                                                                                                          The present invention provides the protein and coding sequences of human PRO proteins. These are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder, including cardiac hypertrophy, trauma, cancer, age-related macular degeneration, atherosclerosis, hypertrension, arterial rescenosis, rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast carcinoma and liver carcinoma) and wound healing. The present sequence is a PRO protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             One hundred and eighty seven nucleic acids encoding PRO polypeptides useful in diagnosis and treatment of cardiovascular (e.g. myocardial infarction), endothelial or angiogenic disorders in a mammal -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-171999/22.
N-PSDB; ABL95585.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 11; Fig 50; 567pp; English.
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GODDARD A.
GODOWSKI P J.
GURNEY A L.
HILLAN K J.
MARSTERS S A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PAN J.
PAONI N F.
STEPHAN J F.
WATANABE C K.
WILLIAMS P M.
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BAKER K P.
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                                                                                                                                                          NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR 180
                                                                                                                                                                                                                 TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKYGNNTIHVHREIHKITN 120
                                                                                                                                                                                                                                            MORLGATILCLILAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
                                                                                                                                                                                                                                                                   MORLGATLLCLLLAAAVPTAPAPAPTATSAPVKFGPALSYPQEEATLNEMFREVEELMED
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PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAAALLGGEEI
                                                                             DSECCODQLCVWGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL
                                                                                                      DSECCGDOLCVWGHCTKWATRGSNGTICDNORDCQFGLCCAFQRGLLFPVCTPLFVEGEL
                                                                                                                                   NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
                                                                                                                                                                                       TQHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                                                   CHDPASRLLDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL
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L, Hillan KJ, Marsters SA,
CK, Williams PM, Wood WI,
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PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAAALLGGEEI
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RESULT 9
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11-AUG-2000; 2000US-224360P
11-APR-2001; 2001US-282850P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Tumour Endothelial Marker polypeptide SEQ
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St Croix B, (UYJO) UNIV JOHNS HOPKINS Kinzler Σ. Vogelstein B

An isolated molecule comprising an antibody variable region which specifically binds to an extracellular domain of a tumor endothel marker (TEM) protein, useful for inhibiting tumor growth endothelial

N-PSDB; WPI;

ABL92089.

2002-291856/33.

Claim 54; Page 156-157; 331pp; English.

proteins have cytostatic, immunostimulant and antianglogenic activity. They are useful for inhibiting tumour growth, neoanglogenesis in subjects bearing a vascularised tumour, polycystic kidney disease, diabetic retinopathy, rheumatoid arthritis and psoriasis. Human, mouse and rat TEM genes and the encoded proteins (ABL92075-ABL92141 and ABB90781-ABB90789) are disclosed, as are marker oligonucleotide sequences; tumour endothelial markers (TEM) ABL91996-ABL92041 and ABL92143-ABL92191; normal endothelial markers (NEM) ABL91996-ABL92041 and and pan-endothelial markers (PEM) ABL91903-ABL92042-ABL92074; The invention relates to an isolated molecule comprising an antibo variable region which specifically binds to an extracellular domai tumour endothelial marker (TEM) protein selected from ABB90732 ABB90749, ABB90750 and ABB90769. The antibodies which bind to TEM n antibody nr domain (main of a ABB90740,

Sequence 350 AA;

Query Match

Length 350;

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TQHKLRSAVEEMEASEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
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                            MORLGATLICULLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
                                                                            Conservative
                                                                                      100.0%;
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                                                                           Score 1880; DB 23;
Pred. No. 6.5e-149;
Mismatches 0;
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TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN

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23-AUG-2000;
24-AUG-2000;
24-AUG-2000;
18-SEP-2000;
18-SEP-2000;
18-SEP-2000;
18-NOV-2000;
08-NOV-2000;
01-DEC-2000;
21-DEC-2000;
22-JAN-2001;
28-FEB-2001;
28-FEB-2001;
21-MAR-2001;
21-MAR-2001;
21-MAR-2001;
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20-JUL-2000;
25-JUL-2000;
25-JUL-2000;
28-JUL-2000;
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2001WO-US06520.

2001WO-US06666.

2001US-0802706.

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RESULT 11 ABU69662

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                                                                                                                                                                                                                                                                                                                                                                                                                                                         CC ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to CC ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic, CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic activities, and can be used in gene therapy. The PRO polynucleotides, CC proteins, agonists and antagonists are useful for treating or diagnosing CC acrdiovascular, endothelial or angiogenic disorder in a mammal, CC e.g. cardiac hypertrophy, trauma, cancer, age-related macular confedence of the proteins, and therosplerosis, hypertension, arterial restensis, CC rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis, CC lymphangitis, tumour anglogenesis (such as breast carcinoma and liver CC carcinoma) and wound healing. The PRO polynucleotides have applications CC carcinoma and gene mapping. ABL88259 to ABL88267 represent primers and CC probes used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                      Matches
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25-MAY-2001; 2001US-0866034.

25-MAY-2001; 2001WO-US17092.

30-MAY-2001; 2001US-0870574.

30-MAY-2001; 2001WO-US17443.

01-JUN-2001; 2001WO-US17800.
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Godowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         One hundred and eighty seven nucleic acids encoding PRO polypeptides, useful in diagnosis and treatment of cardiovascular (e.g. myocardial infarction), endothelial or angiogenic disorders in a mammal -
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim
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)B; ABL88096.
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JF,
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                                                                                                                                                                                                               NOTGOMVESETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
                                                                                                                                           DSECCGDQLCVWGHCTKWATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL
                                                                                                                                                                                 NOTGOMVESETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
                                                                                                                                                                                                                                                TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                                                                                                                                                                                                                                                                    TQHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                        PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAAALLGGEEI
                                                                                                                        DSECCGDQLCVWGHCTKWATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL
                                                                                  CHDPASRLLDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL
                                                            CHDPASRLIDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL
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J, Gurney A
                                                                                                                                                                                                                                                                                                                                                                                                                                   350 AA;
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L, Hillan KJ, Marsters SA,
CK, Williams PM, Wood WI,
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Pred. No. 6.5e-149;
; Mismatches 0;
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28-JUL-2000;
24-JUL-2000;
17-SEP-1997;
17-SEP-1997;
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17-SEP-1997;
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18-SEP-1997;
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18-SEP-1997;
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02-MAR-2000;
20-MAR-2000;
30-MAR-2000;
22-MAY-2000;
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14-SEP-1998;
16-SEP-1998;
17-SEP-1998;
01-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel human
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13-SEP-1999;
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 98WO-US31330

98WO-US31330

98WO-US31994

99WO-US21090

99WO-US21090

99WO-US28214

99WO-US28313

99WO-US28313

99WO-US28564

99WO-US28561

99WO-US28511

99WO-US28511

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2000WO-US28511

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98WO-US19177.
98WO-US19330.
       29-OCT-1997;
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29-OCT-1997;
31-OCT-1997;
31-OCT-1997;
03-NOV-1997;
07-NOV-1997;
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11-SEP-1998
11-SEP-1998
17-SEP-1998
13-CCT-1998
20-NOV-1998
22-DEC-1998
22-DEC-1998
22-UL-1999
26-UUL-1999
28-UUL-1999
18-SEP-2000
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The invention describes sixty one nucleic acids encoding PRO polypeptides (secreted and transmembrane). The PRO polypeptides and nucleic acids are useful in diagnosing or treating enterocolitis, gastrointestinal ulceration, skin diseases associated with abnormal keratinocyte differentiation, e.g. psoriasis or epithelial cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g. rheumatoid arthritis, asthma or multiple sclerosis, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, diabetic complications, or mutations in general. The polypeptides are also useful for wound repair and associated therapies concerned with re-growth of tissue. The PRO polypeptides and nucleic acid molecules are also useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The anti-PRO antibodies may be used
                                                                                                                                                                                                                                                        New PRO polypeptides and nucleic acid molecules, useful in diagnosing or treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's disease -
                                                                                                                                                                                                                                                                                                                                                                        Ashkenazi A, Botstein D, Desnoyers L, Filvaroff E, Fong S; Gao W, Getber H, Godowski PJ, Grimaldi JC, Gurney AL, H Mather JP, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI;
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N-PSDB; ACA55002.
                                                                                                                                                                                                                              Claim 12;
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97US-065846P.
97US-065364P.
97US-066453P.
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97US-06671P.
97US-066772P.
97US-066772P.
97US-066772P.
97US-066840P.
98US-100858P.
98US-100304P.
98US-113296P.
99US-146222P.
99US-146222P.
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H, Gerritsen M
, Hillan KJ, K
, Stewart TA,
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Ferrara 1 ME, God Kljavin Tumas

ra N; Goddard; in IJ;

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30-NOV

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ABU71485
ID 71485
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             neuroprotective.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alzheimer's
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       98WO-US19177
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Pred. No. 6.5e-149;
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Ashkenazi A, Botstein Filvaroff E, Fong S, Godowski PJ, Grimaldi Mather JP, Pan J, Pao Williams PM, Wood WI;
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17-OCT-1997;
21-OCT-1997;
24-OCT-1997;
24-OCT-1997;
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24-AUG-2000;
17-SEP-1997;
                        The present invention relates to the isolation of novel human secreted and transmembrane proteins (PRO polypeptides), and the polynucleotide sequences encoding them. The polynucleotide sequences are useful in molecular biology, as hybridisation probes, in chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy. The polynucleotide sequences may also be used in preparing PRO polypeptides by recombinant techniques, and in generating either transgenic animals or knock-out animals which, in turn, are useful in the development and screening of therapeutically useful reagents. The PRO polypeptides or their antibodies are useful in preparing a medicament for treating a condition responsive to the polypeptide or antibody, such as cancer, Alzheimer's disease or ischaemia, and in various diagnostic assays. ABU71445-ABU71505 represent human PRO polypeptides of the invention.
                                                                                                                                                                                                                                                                       New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO1868, useful in molecular biology, chromosome and gene m generating antisense RNA and DNA, and in gene therapy
                                                                                                                                                                                                                                             Claim 12;
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15-OCT-1997;
Sequence
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2000WO-US04414
2000WO-US20710
2000WO-US23328
97US-059113P
97US-059113P
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97US-06215P
97US-062185P
97US-06285P
97US-063885P
97US-063885P
97US-063887P
97US-0638816P
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Kljavin
Tumas D
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           CHDPAGRILDLITWELEPDGALDRCPCASGLLCOPHSHSLVYVCKPTFVGSbDQDGEILL
                                                               DSBCCGDQLCVMGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTFLFVEGEL
                                                                                                 NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQPASFQYTCQPCRGQRMLCTR
                                                                                                                 NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
                                                                                                                                                                      TQHKLRSAVEBMBAEBAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHRBIHKITN
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Pred. No. 6.5e-149;
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RESULT 13
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ID ABU71
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 18 SEP-2000; 2000US-0665350.
08-NOV-2000; 2000US-0709238.
20-DEC-2000; 2000US-0747259.
22-MAR-2001; 2001US-0816744.
10-MAY-2001; 2001US-0854208.
10-MAY-2001; 2001US-0854280.
30-MAY-2001; 2001US-0876503.
29-JUN-2001; 2001US-0874503.
29-JUN-2001; 2001US-0869599.
18-JUL-2001; 2001US-0908827.
06-DEC-2001; 2001US-0006867.
New isolated antibody specifically binding a PRO polypeptide, useful for the preparation of a medicament for treating disorders with the
                                                                                                                                                                                                                                                                                                                                                                                                                 30-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; gene therapy; tumour; cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human secreted polypeptide PRO295.
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22-AUG-2000
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                           2003-330485/31.
DB; ACA58813.
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                                                                              ) GENENTECH INC
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                                                    Filvaroff
C, Gurney
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2001WO-US06520.

2001WO-US17800.

99US-0311832.

99US-0380137.

99US-0380138.

99US-0380139.
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; 2000US-0644848.
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2000WO-US23328.
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2000WO-US0753
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99US-0397342.
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                                                    Gerritsen ME, Watanabe CK,
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                                                    Goddard A, Wood WI;
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                           US2003003530-A1
                                            Homo sapiens
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The invention relates to an antibody that binds to a polypeptide with a CC fully defined sequence given in the specification. The methods and CC compositions (containing antibodies that specifically bind a PRO CC compositions of the present invention are useful for the preparation of a CC medicament for the treatment of disorders associated with the aberrant CC expression or activity of the PRO polypeptide, such as tumour conditions and cancer. They can also be used to generate transgenic or knockout CC animals useful in the development and screening of therapeutically useful CC reagents. The PRO polypeptides and encoding nucleic acids can be used as CC induce angiogenesis to young the security of the security of induced and tissue typing. The PRO polypeptides are useful to induce angiogenesis e.g wound healing, in the treatment of sports-related CC induce angiogenesis e.g wound healing, in the treatment of sports-related CC intuity is diabetes; hyperinsullinaemia and hypoinsullinaemia. The CC antibodies may be used in various diagnostic, competitive binding and/or card sequence of a PRO polypeptide of the invention.
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Best Local S
Matches 350
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PREVPDEYEVGSFMEEVROELEDLERSLTEEMALGEPAAAAAALLGGEEI
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Human; secreted protein; transmembrane protein; PRO; gene therapy; chromosome identification; chromosome marker
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                                                                                                   Human secreted/transmembrane protein PRO295
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21-NOV-1997; 97US-0663649.
24-NOV-1997; 97US-066453P.
24-NOV-1997; 97US-066466P.
24-NOV-1997; 97US-066511P.
24-NOV-1997; 97US-066770P.
24-NOV-1997; 97US-066770P.
24-NOV-1997; 97US-066772P.
18-SEP-2000; 2000US-0665350.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N; Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard Godowski PJ, Grimaldį JC, Gurney AL, Hillan KJ, Kljavin IJ; Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D; Williams PM, Wood WI;
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N-PSDB; ACA60194.
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                                                                                                                                                                                                                                                                                                                                                                                               present sequence represents a PRO protein.
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                                     121 NOTGOMVESETVITSVGDEEGRRSHECIIDEDCGESMYCQFASFQYTCQPCRGQRMLCTR 180
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Pred. No. 6.5e-149;
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97US-059122P

97US-059266P 97US-062125P 97US-062285P 97US-062287P 97US-063486P 97US-062814P

97US-063121P

2000WO-US20710 2000WO-US23328

97US-059113P

2000WO-US05841 2000WO-US07377 2000WO-US08439 2000WO-US14042 2000WO-US15264

24-0CT 24-0CT 27-0CT 28-0CT 28-0CT 28-0CT 28-0CT 29-0CT 29-0CT 31-0CT 31-0CT 31-0CT 31-0CT 31-0CT 31-0CT 31-0CT

97US-063127P.
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97US-063329P.
97US-063541P.
97US-063544P.
97US-063544P.
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97US-063544P.
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1-OCT-1997; 3-NOV-1997;

97US-063732P.
97US-063735P.
97US-063735P.
97US-063738P.
97US-063870P.
97US-064103P.
97US-064103P.
97US-064288P.
97US-065186P.
97US-065846P.

02-DEC-1999; 16-DEC-1999; 20-DEC-1999; 20-DEC-1999; 20-DEC-1999; 05-JAN-2000; 11-FEB-2000; 22-FEB-2000;

99WO-US30911. 99WO-US30999. 2000WO-US00219. 2000WO-US03565. 2000WO-US04414. 2000WO-US05004. 29-NOV-1999; 30-NOV-1999; 01-DEC-1999;

> 99WO-US23089 99WO-US28214 99WO-US28313

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99WO-US28565 99WO-US30095 15-SEP-1999 05-OCT-1999

08-SEP-1999; 13-SEP-1999; 15-SEP-1999;

> 99WO-US20594 99WO-US20944

98WO-US19330 98WO-US19437 98WO-US25108

14~SEP-1998; 16-SEP-1998; 17-SEP-1998;

11-JUL-2001;

2001US-0904011

01-DEC-1998;

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RESULT 15
ABU71955
ID ABU71955
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                                                        The invention describes novel isolated PRO polypeptides. The PRO polypeptides or anti-PRO antibodies are useful in preparing a medicament for treating a condition that is responsive to the PRO polypeptide or antibody. The PRO nucleotide sequences may be used as hybridisation probes in Chromosome and gene mapping, or in generating antisense RNA cand DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in assays to identify other proteins or molecules involved in binding reaction, to generate transgenic animals or knockout animals, which in turn are useful in the development and screening of therapeutically turn are useful in the development and screening of therapeutically useful reagents, for chromosome identification, and tissue typing. The PRO polypeptides and nucleic acid molecules are also useful in gene therapy, and as molecular weight markers for protein electrophoreasis purposes. The anti-PRO antibodies may be used in diagnostic assays for PRO, or for the affinity purification of PRO from recombinant cell culture or natural sources. This is the amino acid sequence of a novel human secreted and transmembrane PRO poypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; secreted and transmembrane polypeptide; chromosome mapping; gene mapping; transgenic animal; knockout animal; therapeutic agent screening; chromosome identification; tissue typing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New secreted and transmembrane PRO polypeptides and nucleic acid molecules encoding the polypeptides, useful in gene therapy or preparing a medicament for treating a condition that is responsive to the PRO polypeptide or antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eaton DL, Filvaroff E, Grimaldi JC, Gurney AL,
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Watanabe CK,
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늄	8	문	8	Вb	γŞ	B	8	Dβ	8	Db	γQ	Matches	Query Match
301 PREVPDEVEVGSFMEEVROELEDLERSLTEEWALGEPAAAAALLGGEEI 350	301 PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAAALLGGEEI 350	241 CHDPASRLIDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL 300	241 CHDPASRLIDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL 300	181 DSECCEDQLCVWGHCTKWATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTFLFVEGEL 240	181 DSECCGDQLCVWGHCTKWATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL 240	121 NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR 180	121 NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGFSMYCQFASFQYTCQFCRGQFMLCTR 180	61 TQHKLRSAVEEMEAEBAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN 120	61 TQHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN 120	1 MQRLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED 60	1 MORIGATUICILLIAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATINEMFREVEELMED 60	350; Conservative 0; Mismatch	Y Match 100.0%; Score 1880; DB 24; Length 350;

Search completed: February 20, Job time : 79 secs 2004, 18:49:00

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Result
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Maximum Match 100%
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Maximum DB
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B36665	177349	A26547	A60798	B36268	王88571	S43572	T15840	A49457	LNRZ	A44315	T15390	ISHUPI	T34264	A34373	T13954
slit protein 2 pre	platelet glycoprot	platelet glycoprot	platelet glycoprot	platelet glycoprot	protein C05B5.5 [i	C05B5.5 protein (c	hypothetical prote	fibulin-2 precurso	lectin precursor -	cartilage oligomer	hypothetical prote	thrombospondin 1 p	hypothetical prote	histidine-rich cal	1

ALIGNMENTS

121 NQI-UMPRESTIVIT SYGDESHARCH DELOGERATION CORRECT C	\$ \$ \$	
NATIONNY SELV LIS VOLLEGARDS AND CONTROL OF THE CON	B &	
NQIQMY FSEIVIIS VOUBERKREHECLI DED COFFIE CERCE POCTPLE VEGEL DSECCEDQLCVWGHCTKWATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLE VEGEL	Ş	
NQTQQMVF3ETV1T3VGUBEGKRSHBCLTLVBUCGFGHTQGFQFQFQFQFTCQFTPLBVEGEL DSECCGDQLCVMGHCTKMATRGSNGTTCDNQRDCQPGLCCAFQRGLLFPVCTPLBVEGEL	. 6	
NQTGQMVFSETV11SVGUBEGRRSHBC11DBUCGFSM1CQFRSFQ+1CQFCXGQxmHC+x	ş . Q	
	σb	
121 NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR 180	δ	
61 TQHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN 120	рЬ	
61 TOHKLRSAVEEMEAAEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN 120	Q	
1 MQRLGATILCILIAAAVPTAPAPAFTATSAPVKPGPALSYPQBEATLNEMFREVEELMED 60	Db. Qy	<u>.</u>
Query Match 99.6%; Score 1873; DB 2; Length 350; Best Local Similarity 99.7%; Pred. No. 1e-126; Matches 349; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	Query M Best Lo Matches	
C;Superfamily: human REIC protein C;Keywords: cardiac muscle; coiled coil; glycoprotein; heart; tumor	A; Gene: reic C; Superfamily: C; Keywords: ca:	
	C;Genetics:	
A:BXperimental source: heart A:BXperimental source: heart	A; Exper	
erences: DDE	A; Cross	
;Molecule Cype: Hwww.	A; Molecule :	
	A; Acces	
	A; Refer	
Biophys. Res. Commun. 268, 20-24, 2000	Biochem.	
T.; Miyazaki, M.; Sakaguchi, M.; i	R;Tsugi, T.;	
;Date: 04-Mar-2000 #sequence_revision 04-Mar-2000 #text_cnange_ii-may-2000	C;Date:	
o sapiens (man)	C; Species: Hom	
tein himan	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

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integrin beta-6 chain -
C;Species: Cavia porcell
C;Date: 15-Feb-1991 #sec
C;Accession: B37057
R;Sheppard, D.; Rozzo, C
J. Biol. Chem. 265, 1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   plasma protein S precursor - human

NyAlternate names: vitamin K-dependent protein S

C;Species: Homo sapiens (man)

C;Date: 21-Sep-1990 #sequence revision 26-Jan-1996 #text_change 16-Jul-1999

C;Accession: A35610; A35611; A26157; A25891; A35612; A60903; S02424; S09519

R;Schmidel, D.K.; Tatro, A.V.; Phelps, L.G.; Tomczak, J.A.; Long, G.L.

Biochemistry 29, 7845-7882, 1990

A;Title: Organization of the human protein S genes.

A;Reference number: A35610; MUID:91084444; PMID:2148110

A;Rocession: A35610

A;Rocession: A35610
A;Molecule type: mRNA
A;Residues: 1-10,'p',12-25,'L',27-676 <HOS>
A;Residues: 1-10,'p',12-25,'L',27-676 <HOS>
A;Residues: 1-10,'p',12-25,'L',27-676 <HOS>
A;Residues: GB:ML5036; NID:g190288; PIDN:AAA36479.1; PA;Lundwall, A.; Dackowski, W.; Cohen, E.; Shaffer, M.; Mahr, A proc. Natl. Acad. Sci. U.S.A. 83, 6716-6720, 1986
A;Title: Isolation and sequence of the CDNA for human protein A;Reference number: A25891; MUID:86313649; PMID:2944113
A;Accession: A25891
                                                                                                                                                                                                                             A;Ressiques: 1-25 <PL3>
A;Cross-references: GB:J02918
A;Cross-references: GB:J02918
R;Hoskins, J.; Norman, D.K.; Beckmann, R.J.; Long, G.L.
Proc. Natl. Acad. Sci. U.S.A. 84, 349-353, 1997
A;Title: Cloning and characterization of human liver cDNA
A;Reference number: A26157; MUID:87092407; PMID:3467362
A;Accession: A26157.
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A;Residues: 1-577 <SHE,
A;Cross-references: GB:M35197; GB:J05522; NID:g191277; PIDN:AAA37043.1;
A;Cross-references: GB:M35197; GB:J05522; NID:g191277; PIDN:AAA37043.1;
A;Note: the authors translated the codon AAA for residue 88 as Asn, AAC
as Pro; ACG for residue 355 as Met, GAG for residue 363 as Thr, ACC for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     J. Biol. Chem. 265, 11502-11507, 1990
A;Title: Complete amino acid sequence of a novel integrin A;Reference number: A37057; MUID:90307659; PMID:2365683
A;Accession: B37057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A, Title: Intron-exon organization of the active human protein S A, Reference number: A35611; MUID:91084445; PMID:2148111 A, Accession: A35611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: GB:M57853; NID:g190547; PIDN:AAA60357.1; PID:g190549; GB:J02917 A;Note: the authors translated the codon TTT for residue 26 as Leu R;Ploos van Amstel, H.K.; Reitsma, P.H.; van der Logt, C.P.E.; Bertina, R.M. Biochemistry 29, 7853-7861, 1990
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A; Residues: 1-25 < PL3 >
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;Species: Cavia porcellus (guinea
;Date: 15-Feb-1991 #sequence_revis
;Accession: B37057
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTLCSGRGDCVCGKCVCTNPGASGPTCERCPT----CSDPCNSKRSCIECHLSADGQPGE
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ll adhesion; cytoskeleton; transmembrane protein
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11502-11507, 1990
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Pred. No. 0.
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A.; Dahlback,
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residue 364
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                                                                                                                              B.; Stenflo,
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A;Molecule type: mRNA
A;Residues: 27-220,'I,'222-262,'H',264-344,'Y',346-676 < LUN >
A;Residues: 27-220,'I,'222-262,'H',264-344,'Y',346-676 < LUN >
A;Cross-references: GB:M14338; NID:g190448; PIDN:AAA60181.1; PID
A;Note: part of this sequence, including the amino end of the ma:
R;Bdenbrandt, C.M.; Lundwall, A.; Wydro, R.; Stenflo, J.
Biochemistry 29, 7861-7868, 1990
A;Title: Molecular analysis of the gene for vitamin K dependent
A;Reference number: A35612; MUID:91084446; PMID:2148112
A;Accession: A35612
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A;Residues: 351-676 <PLO>
R;Ploos van Amstel, H.K.; van der Zanden, A.L
FEBS Lett. 222, 186-190, 1987
A;Title: Human protein S cDNA encodes Phe-16
A;Title: Human protein S cDNA encodes Phe-16
A;Reference number: S02424; MUID:88005138; PM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               F,111-112/Cleavage site: Arg-Ser (thrombin) #status predicted
F,136/Modified site: erythro-beta-hydroxyaspartic acid (Asp) #status predicted
F,177,219,258/Modified site: erythro-beta-hydroxyasparagine (Asn) #status predicted
F,499,509,530/Binding site: carbohydrate (Asn) (covalent) #status predicted
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A;Residues: 284-676 <EDE>
A;Cross:,references: GB:J02919
A;Cross:,references: GB:J02919
A;Cross:,references: J.K.; van der Zanden, A.L.; Bakker, E.; Thromb. Haemost. 56, 982-987, 1987
Thromb. Haemost. 56, 982-987, 1987
A;Tille: Two genes homologous with human protein S cDNA are A;Reference number: A60903; MUID:88178564; PMID:2895503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           F;247-282/Domain: EGF homology <EG4>
F;315-667/Domain: sex hormone-binding globulin homology <SHB>
F;315-667/Domain: sex hormone-binding globulin homology <SHB>
F;325-478/Domain: laminin G repeat homology <LGR>
F;325-478/Domain: laminin G repeat homology <LGR>
F;47/48,55,57,60,61,66,67,70,73,77/Modified site: gamma-carboxyglutamic acid (Glu) #statt
F;58-63,88-113,121-134,126-143,145-154,161-175,171-184,186-199,205-217,212-226,228-241,24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: GDB:120721; OMIM:176880

A;Map position: 3p11.1-3q11.2

A;Map position: 3p11.1-3q11.2

A;Introns: 26/1; 78/3; 87/1; 116/1; 157/1; 201/1; 243/1; 283/3;

C;Complex: in plasma forms a complex with C4b binding protein
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A;Residues: 1-676 <PL2>
A;Cross-references: EMBL:Y00692; NID:g36578;
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7:26-85/Domain: Gla domain homology <GLA>
7:42-676/Product: plasma protein S #status predicted <MAT>
7:121-154/Domain: EGF homology <EG1>
7:161-199/Domain: EGF homology <EG2>
7:205-241/Domain: EGF homology <EG3>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;Description: a cofactor for activated protein C (EC 3.4; Superfamily: plasma protein S; EGF homology; Gla domair; Superfamily: beta-hydroxyasparagine; beta-hydroxyaspartic; 1-24/Domain: signal sequence #status predicted <SIG>
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Best Local
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      171
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CRGQRMLCTRDSECCGDQLCVWGHCTKMA--TRGS-----
                                                                                                                                   NOTGOMVESETVITSVGDEEGRRSHECIIDEDCGP----
                                                                                                                                                                                                                                                                                                                                                                                           RLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMEDTQ
                                                                     FQTGLFTAARQSTNAYPD---LRSCVNAIPDQCSPLPCNEDGYMSCKDGKASFTCTCKPG
                                                                                                                                                                                                                                                            --HKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
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24.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Score 131.5; DB; Pred. No. 0.091; 43; Mismatches 1
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PMID:2820795
                                                                                                                                                                                                    ---FENDPETD-----YFYPKYLVCLRS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                129;
                                                                                                                                   ---SMYCQ--FASFQYTCQP- 170
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Title:
Perfect score:
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Listing first 45 summaries
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1: sp_archea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
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Gapop 10.0 , Gapext 0.5
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1880
1 MQRLGATLLCLLLAAAVPTA.....EMALGEPAAAAAAALLGGEEI 350
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

16	15	14	13	12	11	10	9	80	7	6	₅	4.	ىيا	2	1	Result
119	124.5	128.5	129.5	129.5	132.5	143	156	157	165	170	175	182.5	703.5	876	1217	Score
6. 3	ტ. ტ	6.8	6.9	6.9	7.0	7.6	8.3	8.4	8.8	9.0	9.3	9.7	37.4	46.6	64.7	% Query Match Length
969	1664	788	230	128	230	420	259	241	240	255	259	221	215	171	277	Length
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Q96kg6 homo sapien	Q9tvq2 caenorhabdi	Q8sqb8 bos taurus	Q9erwl mus musculu		Q9eqt4 mus musculu	Q8i499 cupiennius	Q8bfw0 mus musculu		Q9pwh3 brachydanio	Q9dda4 xenopus lae	O57464 xenopus lae	Q8vej3 mus musculu	Q8n294 homo sapien	O43532 homo sapien	Q9es33 rattus norv	Description

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Q9sy59 arabidopsis		Q8jfe6 bombina max			Q8cg19 mus musculu	Bru	Q14114 homo sapien	home	drosc	O88349 mus musculu	Bum	Bum	omo	omo	Q96hb9 homo sapien	Boml	Q966v1 drosophila	Q9v5j0 drosophila	Q9vc97 drosophila	, Q61810 mus musculu			Q07012 xenopus lae	Q9vrw0 drosophila	Q9xs50 bos taurus		gal.	Q91v90 mus musculu

ALIGNMENTS

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192 WGHCTKWATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGELCHDPASRLLDL 251	61 VITSVEDGEGKKSHECIIDEDCGPTRYCQFSSFKYTCQPCRDQQMLCTRDSECCGDQLCA 120	132 VITSVGDESGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTRDSECCGDQLCV 191	1 MEAEEAAARTSSEVTLSSLPANYHNETNTETRMENNTAHVHREVHKITNNQSGQTVFSET 60	72 MEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITNNQTGQMVFSET 131	Query Match 64.7%; Score 1217; DB 11; Length 277; Best Local Similarity 78.1%; Pred. No. 2.5e-98; Matches 218; Conservative 26; Mismatches 33; Indels 2; Gaps 1;	SEQUENCE 277 AA; 30763 MW; 8025F66DFE4C205E CRC64;	Pfam; PF04706; dickkopf_N; 1.	EMBL; AF245040; AAG15890.1;	. Chem. 275:25194-25201(2000).	ssion, and funct		Leonard D.M., Stachelek S.J., Safran M., Farwell A.P., Kowalik T.F.,	MEDLINE=20400444; PubMed=10829019;	STRAIN=Sprague-Dawley; TISSUE=Brain;	SEQUENCE FROM N.A.	[1]	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; kattus.	Chordata; Craniata; Vertebrata; Euteleosto	(Rat).	inding subunit of	BLrel. 2	Ol-MAR-2001 (TERMELTEDI 16. Last semience indate)	(TENBITE) 16	Q9ES33 PRELIMINARY; PRT; 277 AA.	33	CT 1

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Best Local S
Matches 151
                                                                                                                                                                                                                                                            Q8N294
Q8N294;
Q8N294;
Q8N294;
O1-OCT-2002 (TrEMBLrel. 22, Created)
O1-OCT-2002 (TrEMBLrel. 22, Last sequence upda
O1-MAR-2003 (TrEMBLrel. 23, Last annotation up
Hypothetical protein FLJ33633.
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Verteb
Mammalia; Eutheria; Primates; Catarrhini; Homi
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O43532;
O1-JUN-1998 (TrEMBLrel. 0
O1-JUN-1998 (TrEMBLrel. 2
O1-MAR-2003 (TrEMBLrel. 2
RIG-1ike 7-1.
Homo sapiens (Human).
Eukaryota; Metazoa; Chord
Mammalia; Eutheria; Prime
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InterPro; IPR006796; dickkopf_N.
InterPro; IPR005805; Rieske.
Pfam; PF04706; dickkopf_N; 1.
PROSITE; PS00200; RIESKE 2; 1.
PROSITE; PS00200; RIESKE 2; 1.
SEQUENCE 171 AA; 19283 MW; B890E38F873D0E62 CRC64;
SEQUENCE FROM N.A.
TISSUB-Amygddala;
TISSUB-Amygddala;
Ninomiya K., Wagatsuma M., Kanda K., Kondo H., Yokoi T., Kodaira H.,
Furuya T., Takahashi M., Kikkawa E., Omura Y., Abe K., Kamihara K.,
Katsuta N., Sato K., Tanikawa M., Yamazaki M., Sugiyama T., Irie R.,
Otsuki T., Sato H., Wakamatsu A., Ishii S., Yamamoto J., Isono Y.,
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Steck P.A.;
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51; Conservative
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Primates;
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Pred. No. 9.2e.
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Hypothetical protein.

SEQUENCE 215 AA; 23904 MW; 2D9DEABCAFAE80B0 CRC64;
   057464
057464;
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Mammalia; Eutheria;
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Ol-MAR-2002 (TrEMBLrel. 20, Last sequence update)
Ol-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Similar to dickkopf (Xenopus laevis) homolog 4.
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Pred. No. 1.5e-53;
3; Mismatches 7;
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1: /ggn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /ggn2_6/ptodata/2/iaa/AB_COMB.pep:*
5: /ggn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
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US-10-072-844-3
US-08-438-663-3
US-08-438-663-3
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US-08-438-663-3
US-08-438-085A-27
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   Patent No.
Sequence 3
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Sequence 11, Appl
Sequence 11, Appl
Sequence 12, Appl
Sequence 12, Appl
Sequence 13, Appli
Sequence 29, Appli
Sequence 3, Appli
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Sequence 14, Application US/09161241
Patent No. 6344541
GENERAL INFORMATION:
APPLICANT: Bass, Michael B
APPLICANT: Sullivan, John K
APPLICANT: Theill, Lars E
APPLICANT: Mang, Dayuang
TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
FILE REFERENCE: A-548
FILE REFERENCE: A-548
                                                      ; ORGANISM: Human US-09-161-241-14
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APPLICANT: Bass, Michael B
APPLICANT: Sullivan, John K
APPLICANT: Theill, Lars E
APPLICANT: Wang, Daguang
TITLE OF INVENTION: NOVEL DER POLYPEPTIDES
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CURRENT APPLICATION NUMBER: US/09/161,241
CURRENT FILING DATE: 1998-09-25
NUMBER OF SEQ.ID NOS: 78
SOFTWARE: Patentin Ver. 2.0
SEQ.ID NO 8
                                                                                        SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 224
TYPE: PRT
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CURRENT FILING DATE: 1998-09-25
NUMBER OF SEQ ID NOS: 78
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TYPE: PRT
ORGANISM: Mouse
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82.5%; Pre
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11.4%;
26.5%;
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Score
Pred.
214.5; DB 4;
No. 1.2e-10;
                Length
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RESULT 5
US-09-161-241-13
; Sequence 13, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
APPLICANT: Bass, Michael B
APPLICANT: Theill, Lars E
APPLICANT: Wang, Daguang
TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
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US-09-161-241-10
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CURRENT FILING DATE: 1998-09-25
NUMBER OF SEQ ID NOS: 78
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
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Best Local Similarity
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APPLICANT: Sullivan, John K
APPLICANT: Theill, Lars E
APPLICANT: Wang, Daquang
TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
FILE REFERENCE: A-548
CURRENT APPLICATION NUMBER: US/09/161,241
                 REFERENCE: A-548
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22-FEB-2000;
01-MAR-2000;
03-MAR-2000;
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05-JAN-2000;
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15-SEP-1999;
05-OCT-1999;
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(CETH _ GENENTECH INC.

Ashkenazi AJ, Botstein D, Desnoyers L, Filvaroff E, Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi CJ, Gurney AL, H Mather JP, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI; , Eaton DL, Ferrara , Gerritsen ME, Goo Hillan KJ, Kljavin Stewart TA, Tumas I Ferrara N; z Þ,

WPI; 200 2001-081051/09.)B; AAB80252.

Sixty one nucleic acids encoding PRO polypeptides which are useful the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's disease)

Claim 2 Fig 83; English.

The present sequence is one of sixty one nucleic acids encoding novel secreted and transmembrane PRO polypeptides. The PRO polypeptides are useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lum squamous cell carcinoma), gastrointestinal disorders (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease,

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Best Local Similarity
Matches 2586; Conserv
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10-JUN-1998;
10-JUN-1998;
11-JUN-1998;
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02-JUN-1999;
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10-NOV-2000;
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18-FEB-2000;
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                                                                                                                                                                                                                                                                                                                              15-SEP-1999;
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                                                                                                                                                                                                                                     (GETH ) GENENTECH INC.
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2000WO-US15264.
2000WO-US23522.
2000WO-US23328.
2000WO-US330873.
2000WO-US330873.
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2001WO-US6520.
2001WO-US21066.
2001WO-US21065.
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99WO-US21194.
99WO-US30720.
2000WO-US04341.
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2000WO-US08439.
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98WO-US19330.
99WO-US05028.
99WO-US10733.
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99WO-US20111.
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98US-088825P.
98US-089863P.
98US-089105P.
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Eaton DL, Grimaldi d . JC, Filvaroff E, C, Gurney AL, Gerritsen ME, Watanabe CK, Goddard A, Wood WI; Godowski Pd.

P-PSDB; WPI; 2002-731348/79. ABG95854.

New isolated secreted and transmembrane PRO polypeptide useful for modulating biological activity of a cell, or for treating sports-related joint problems, osteoarthritis or rheumatoid arthritis

Claim 2; Fig 7; 399pp; English

The invention relates to an isolated secreted and transmembrane PRO
Cas ABG95851-ABG95934 or their associated signal peptide, or a sequence
Cas are attracellular domain of the proteins with their associated signal
CC peptide or lacking its associated signal peptide. Also included are
CC the nucleic acids encoding the proteins with their associated signal
CC fusion proteins and antibodies which specifically bind to the proteins.
CC or D in a sample suspected of contacting an A, B, C or D polypeptide,
CC or D in a sample suspected of contacting an A, B, C or D polypeptide.
CC or D in a sample suspected of contacting an A, B, C or D polypeptide,
CC or D in a sample with a polypeptide designated as B, F, G, H or
CC or D polypeptide conjugate in the sample, where the formation of the
CC conjugate is indicative of the presence of an A, B, C or D polypeptide,
CC polypeptide. C is a PRO1095 polypeptide, D is a PRO20010
CC polypeptide. C is a PRO1095 polypeptide, D is a PRO20040
CC polypeptide. The sample comprises a cell suspected of expressing the A,
CC B, C or D polypeptide. The B, F, G, H or I polypeptide designated as A, B, C or D polypeptide with
CC auses death of the cell A, B, C or D polypeptide with
CC causes death of the cell A, B, C or D polypeptide bloactive
CC against them are useful for modulating an abiology. The bioactive molecule
CC against them are useful for modulating a biological activity of a cell
CC agonists or antagonists, for the proteins are useful for identifying
CC agonists or antagonists, for the proteins are useful for identifying
CC the treatment of a condition which is responsive to the proteins, as
CC therapeutic agents for treating sports-related joint problems, and as
CC therapeutic agents for treating sports-related joint problems, and as

ACCAGAGGGACTGCCAGCCGGGGCTGTGCTGTGCCTGTGCCAGAGAGGCCTGCTGTTCCCTG B	CARRIAGA CARANTEGECACEAGGGCAGCAATGGGACATCTGTGACA []	CATGCCGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTG	AGGLAGILAICACAIC IO AGGLAGA TOTACCAGA TOTACAGA CAGACAGA CAGACAGA CAGACAGA CAGACAGA	A TOTO CHARLES CANCELLA L'OCCENONI FRANCES CANCELLA CONCLINATION CONTROLLA CON	ATCTTCCCAGC. AT CACCATION COLOR COLO	TACCTCCCAGCTATCACAATGAGACCACAACACGAGACGCGAAGGTTGGAAATAATACCATCC TACCTCCCAGCTATCACAATGAGACCACAACACGAGACACGAAGGTTGGAAATAATACCATCC TACCTCCCACCTATCATAATGAGACCACAACACACAACACCATCACAAATAACAATACCATCC	AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAAGTGAAACCTGGCAAACTT	TGTTCGCGAGGTTGAGGAACTGATGGAGGACAGCAGCAGCACAAATTGCGCAGCGGGTGG	CLIGALIGA GOCGOGOGO CONTROLO C	GCTTGCTGCTGGCGGCGGCGGTCCCACGGCCCCGCTCCGACGGCGACGGCTCCGACGACGACGACGACGACGACGACGACGACGACGACGA	CUSCUSCUSCUSCUSCUSCUSCUSCUSCUSCUSCUSCUSC	CCGGCGGCCTCCCGGCGGGAGCGAGCAGATCCAGTCCGGCCGCAACTCGGTCCA		y Match Local Similarity 100.0%; Score 2586; DB 2. hes 2586; Conservative 0; Mismatches 0.	assay and for affinity purification of the protein from recombinant cell culture natural sources. The present sequence encodes a novel secreted or transmembrane protein of the invention. Sequence 2586 BP; 631 A; 679 C; 703 G; 573 T; 0 other;	DNA, for the preparation of the proteins, to generate transgenic or knockout animals which are useful in the development and screening of therapeutic useful reagents, for chromosome identification, and in gene therapy. The antibody is useful as a therapeutic agent, in a diagnostic	articular cartilage defects, osteoarthritis or rheumatoid arthritis. Nucleic acids encoding the proteins are useful as hybridisation probes, in chromosome and gene mapping, in the generation of anti-sense RNA and
\$ \$ \$	Qy db	Db Qy	, Qy da	Qy dd	Qy dy	dd Qy	dy Qy	dd VQ	D CY	Db Qy	QQ .	Db Qy	QY Db	Qy	Qy dd	qq VQ	do Ad
1861 GCTCAGAGACTGCAAGCTGCCCAAGTCACACAGCTAGTGAGACCAGAGCAGTTGC 1920	TCTCTCAGCACAGCCTGGGGAGGGGGTCATTGTTCTCCTCGTCCATCAGGGATCTCACAG 186	180	р р	<u> </u>	1561 TGATTGGTTTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAA 1620 					1261 GGTGTGTGTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTT 1320		120		GARGCCGTGACCAAGATGGGGACATCCTIGCTIGCTGCCCAGACAGGTCCCCGATGAGTATGAAGGGCCGTGACCAAGATGGGGAAGATCCTGCCTG	GCCTCCTCTGCCAGCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGG 1	901 ACCTCATCACCTGGGAGCCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTG 960	841 TGTGCACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGG 900 841 TGTGCACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGG 900

1981

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Human; anglogenesis; PRO protein; cardiovascularisation; wound; atherosclerosis; cardiac hypertrophy; gene therapy; endothelial cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary; antiarteriosclerotic; gene; ss.
20-JUL-2000;
25-JUL-2000;
                                                                                                                                                                                                                                                                                                                               Human angiogenesis related cDNA PRO295 SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                            19-JUL-2002
                                                            09-JUL-2001;
                                                                                                                                              WO200208284-A2
                                                                                                                                                                                    Homo sapiens
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2000US-220624P.
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18-SEP-2000;
18-SEP-2000;
24-OCT-2000;
08-NOV-2000;
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28-JUL-2000;
02-AUG-2000;
17-AUG-2000;
23-AUG-2000;
24-AUG-2000;
07-SEP-2000;
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09-MAR-2001;
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28-FEB-2001;
28-FEB-2001;
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Godowski PJ,
Stephan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-DEC-2000;
20-DEC-2000;
                                                                                                                                                                                                               One hundred and eighty seven nucleic acids encoding useful in diagnosis and treatment of cardiovascular infarction), endothelial or angiogenic disorders in
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(PAON/)
(STEP/)
(WATA/)
(WILL/)
(WOOD/)
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      The present invention provides the protein and coding sequences PRO proteins. These are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder, including ca hypertrophy, trauma, cancer, age-related macular degeneration, atherosclerosis, hypertension, arterial restenses, rheumatoid a angina, myocardial infarctions, thrombophlebitis, lymphangitis, angiogenesis (such as breast carcinoma and liver carcinoma) and
                                                                                                                                                                                                                                                                                                    P-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-MAY-2001;
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25-MAY-2001;
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)B; ABB95447.
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GERRITSEN M E.
GODDARD A.
GODOWSKI P J.
GURNEY A L.
HILLAN K J.
HILLAN K J.
MARSTERS S A.
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BAKER K P.
FERRARA N.
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STEPHAN J F.
WATANABE C K.
WILLIAMS P M.
WOOD W I.
                                                                                                                                                                                                                                                                                                                                                          Ferrara N, Geru
PJ, Gurney AL, H
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2000WO-US30952.
2000WO-US30873.
2000WO-US32678.
2000US-0747259.
2000WO-US34956.
2001US-0767609.
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; 2000WO-US20710.
; 2000US-222695P.
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2001US-0854208.
2001US-0854280.
2001US-0866028.
2001US-0866034.
2001US-0807092.
2001US-0807092.
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2001WO-US00000
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                                                                                                                                                                            567pp; English.
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L, Hillan KJ, Marsters SA,
CK, Williams PM, Wood WI,
                                                                                                                                                                                                                                                                                                                                                                                                               Goddard
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                                                          rheumatoid arthritis,
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2041 ATTAAGGTCAAACTAATTCTCACATCCCTCTAAAAGTAAACTACTACTATACGTCAAACTAATTCTCACATCCCTCTAAAAGTAAACTACTACTACTATCTCACATCCCTCTAAAAGTAAACTACTACTACTACTACTACTACTACTACTACTACTA	- 29	961 GCCTCCTCTGCCAGCC
981 CCAAAAGTGCTCCCCAAAAGGAAGGAGAATGGGATTTTTTTT	9 2 2	Qy 901 ACCTCATCACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTG 960
921	S D	Qy 841 TGTGCACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGG 900
.861	Q Db	Qy 781 ACCAGAGGGACTGCCAGCCGGGCTGTGCCTTCCAGAGAGGCCTGCTGTTCCCTG 840
801	δ β (Qy 721 GTGTCTGGGGTCACTGCACCAAAATGGCCACCAGGGGCAACGATGGGACCATCTGTGACA 780
	δ <u>β</u> γ	Qy 661 CATGCCGGGGCCACAGGATGCTTCTGCACCCGGGACAGTGAGTG
681	Db .	Qy 601 ACGAGGACTGTGGGCCCAGCATGTACTGCCAGCTTTGCCAGCTTCCAGTACACCTGCCAGC 660
621 681	o da ;	Qy 541 AGACAGTTATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAGCCACGAGTGCATCATCG 600
561 621	O B 1	QY 481 ATGTGCACCGAGAATTCACAAGATAACCAACCAGACTGGACAAATGGTCTTTTCAG 540
501 561	עס סם	QY 421 TACCTCCCAGCTATCACAATGAGACCAACACAACACGAAGGTTGGAAATAATACCATCC 480
441	OV DB	Qy 361 AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACT 420
	OV Db	Qy 301 TGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGGCAGCGGGGG 360
	OV DB	Qy 241 CTCCAGTCAAGCCCGGCCCGGCCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGA 300
261 321	Q D	Qy 181 GCCTGCTGCTGGCGGCGGCGGTCCCCACGGCCCCGCGCCCGCTCCGACGCGACCTCGG 240
	QV dd	Qy 121 GTCGGGGCGGCGGCGGCGGCGCAGAGCGGAAGATGCAGCGGCTTGGGGGCCACCCTGCTGT 180
141	OV Db	Qy 61 CCGGCGGCCTCCCGGCGGGAGCAGATCCAGTCCGGCCGCAGCGCAACTCGGTCCA 120
	Q D 4	QY 1 CGCCGCGCTCCCGCACCCGCGGCCCACCGCGCCTCCCGCATCTGCACCCGCAGC 60
021	ם פ	Query Match 100.0%; Score 2586; DB 24; Length 2586; Best Local Similarity 100.0%; Pred. No. 0; Matches 2586; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
961 GCCTCCTCTGCCAGCCCACAGCCTGCTGCTGTGTATGTGCCAAGCCTGAGTATGAAG 1020 1021 GGAGCCGTGACCCAAGATGGGGAGATCCTGCCTGCCCAGAGAGGTCCCCGATGAGTATGAAG 1080		CC healing. The present sequence is a coding sequence of the invention. XX SQ Sequence 2586 BP; 631 A; 679 C; 703 G; 573 T; 0 other;

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25-JUL-2000;
28-JUL-2000;
02-AUG-2000;
17-AUG-2000;
                                                                                                                                                                                                         Human; angiogenesis; cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma; gene therapy; cardiovascular disorder; endothelial disorder; cancer; angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension; age-related macular degeneration; arterial restensis; hypertension; rheumatoid arthritis; myocardial infarction; thrombophlebitis; lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma; hymonad healing; chromosome mapping; gene mapping; gene; ss.
                                                                                                                                                                                                                                                                                                                                 Human
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                                                                                                        20-JUN-2001;
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2000US-219556P.
2000US-220624P.
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2000US-222695P.
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24-AUG-2000; 2000WO-US23328.
07-SEP-2000; 2000US-0664610.
18-SEP-2000; 2000US-0664510.
24-OCT-2000; 2000US-0665350.
24-OCT-2000; 2000US-0709238.
08-NOV-2000; 2000WO-US30952.
10-NOV-2000; 2000WO-US30973.
20-DEC-2000; 2000WO-US32678.
20-DEC-2000; 2000WO-US32678.
20-DEC-2000; 2000WO-US32678.
20-DEC-2000; 2000WO-US32956.
22-JAN-2001; 2001US-0767609.
28-FEB-2001; 2001US-0767609.
28-FEB-2001; 2001US-076666.
09-MAR-2001; 2001US-0806666.
09-MAR-2001; 2001US-0806666.
10-MAY-2001; 2001US-0866934.
25-MAY-2001; 2001US-0866034.
25-MAY-2001; 2001US-0866034.
25-MAY-2001; 2001US-0866034.
25-MAY-2001; 2001US-0866034.
25-MAY-2001; 2001US-0866034.
25-MAY-2001; 2001US-0867074.
30-MAY-2001; 2001US-0867074.
30-MAY-2001; 2001US-0867074.
30-MAY-2001; 2001US-0867074.
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Baker KP, Ferral A Godowski PJ, Gurney A Ferrara N, Gernara N, Gurney AL, H Gerber H, Gerritsen ME, Go L, Hillan KJ, Marsters SA, CK, Williams PM, Wood WI, Goddard A; Уe Pan Ye W; ŗ

P-PSDB; 2002-090516/12. DB; ABB84841.

One hundred and eighty seven nucleic acids encoding PRO polypeptides, useful in diagnosis and treatment of cardiovascular (e.g. myocardial infarction), endothelial or angiogenic disorders in a mammal -

Claim 2; Fig 49; 565pp; English.

CC ABB85003 The PRO proteins and polynucleotides have cardiant, cytostatic, antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic activities, and can be used in gene therapy. The PRO polynucleotides, proteins, agonists and antagonists are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder in a mammal, and can be used in gene therapy. The PRO polynucleotides, proteins, agonists and antagonists are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder in a mammal, and e.g. cardiac hypertrophy, trauma, cancer, age-related macular cangular standard anthritis, angina, myocardial infarctions, thrombophiebitis, rehumatoid arthritis, angina, myocardial infarctions, thrombophiebitis, carcinoma) and wound healing. The PRO polynucleotides have applications in molecular biology, including use as hybridiatation probes, and in C chromosome and gene mapping. ABL88259 to ABL88267 represent primers and creating used in the exemplification of the present invention.

Sequence 2586 BP; 631 A; 679 C; 703 G; 573 T; 0 other;

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            Gao
            Desnoyers L,
W, Gerber H,
               Eaton DL,
Gerritsen
               Ferrara N;
ME, Goddard A;
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The invention describes sixty one nucleic acids encoding PRO polypeptides CC (secreted and transmembrane). The PRO polypeptides and nucleic acids are useful in diagnosing or treating enterocolitis, gastrointestinal cC ulceration, skin disease associated with abnormal keratinocyte cdifferentiation, e.g. psoriasis or epithelial cancers such as squamous cc ell carcinoma, Alzheimer's disease, Parkinson's disease, auxocrophic catteral sclerosis, inflammatory diseases, e.g. rheumatoid arthritis, casthma or multiple sclerosis, organ failure, atherosclerosis, cardiac cinjury, infertility, birth defects, premature aging, AIDS, cancer, cc diabetic complications, or mutations in general. The polypeptides are calso useful for wound repair and associated therapies concerned with cre-growth of tissue. The PRO polypeptides and nucleic acid molecules care also useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The anti-PRO antibodies may be used cin diagnostic assays for PRO, or for the affinity purification of PRO corroctes a novel human PRO polypeptide.
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Best Local S
Matches 2586
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Mather JP, Pa
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim
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TM, Wood WI;
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an J, Paoni
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Human; secreted and transmembrane protein; PRO polypeptide; cancer; Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;

cDNA encoding 10-JUN-2003 ACA58487;

human PRO polypeptide

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(GETH) GENENTECH INC.

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n ME, Goddard
Kljavin IJ;
, Tumas D; A,

WPI; 2003-361832/34. P-PSDB; ABU71485.

New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 PRO1868, useful in molecular biology, chromosome and gene mapping, generating antisense RNA and DNA, and in gene therapy , or

Claim 2 Fig 83; 474pp; English

The present invention relates to the isolation of novel human secret and transmembrane proteins (PRO polypeptides), and the polynucleotide sequences encoding them. The polynucleotide sequences are useful in molecular biology, as hybridisation probes, in chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy. I polynucleotide sequences may also be used in preparing PRO polypepti polypeptides ide

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Best Local Sim:
Matches 2586;
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               ATCTGGTTGTGACTCTAAGCTCAGTGCTCTCTCCACTACCCCACACCAGCCTTGGTGCCA
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 30-DEC-1998;

08-MAR-1999;

14-MAY-1999;

30-DEC-1999;

18-FEB-2000;

01-MAR-2000;

02-MAR-2000;

21-MAR-2000;
                                                                                                                 03-MAY-2002; 2002US-0063616.
                                                                                                                                                                  US2003013855-A1
                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                             cDNA encoding human secreted
                                                                                                                                                                                                                                                                       10-JUN-2003
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 98KR-0062142.

99WO-US05028.

99WO-US10733.

99WO-US11274.

2000WO-US04341.

2000WO-US05601.

2000WO-US05841.

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18-SEP-2000;
18-SEP-2000;
08-NOV-2000;
20-DEC-2000;
20-DEC-2001;
10-MAY-2001;
10-MAY-2001;
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15-SEP-1999;
18-OCT-1999;
12-NOV-1999;
22-AUG-2000;
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25-AUG-1999;
25-AUG-1999;
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Grimaldi
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P-PSDB;
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05-JUN-2001;
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01-JUN-2001;
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)B; ABU71509.
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C, Gurney AL,
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99US-0311832

99US-0380137

99US-0380139

99US-0380139

99US-0397342

99US-044948

2000US-06643610

2000US-0709238

2000US-0816744

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2000US-0879574
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2000WO-US32678.
2000WO-US34956.
2001WO-US06520.
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2000WO-US15264
                                                                                                                                                                                                            Gerritsen ME, Watanabe CK,
                                                                                                                                                                                                            Goddard A, Wood WI;
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New isolated antibody specifically binding a PRO polypeptide, useful for the preparation of a medicament for treating disorders with the aberrant expression or activity of the PRO polypeptide, such as tumos conditions and cancer as tumor

Example 4; Page 71-72; 406pp; English

The invention relates to an antibody that binds to a polypeptide with a CC fully defined sequence given in the specification. The methods and compositions (containing antibodies that specifically bind a PRO CC polypeptide) of the present invention are useful for the preparation of a cmedicament for the treatment of disorders associated with the aberrant cexpression or activity of the PRO polypeptide, such as tumour conditions and cancer. They can also be used to generate transgenic or knockout can animals useful in the development and screening of therapeutically useful creagents. The PRO polypeptides and encoding nucleic acids can be used as molecular weight markers for protein electrophoresis, chromosome cidentification and tissue typing. The PRO polypeptides are useful to induce angiogenesis e.g wound healing, in the treatment of sports-related continuous articular cartilage defects, osteoarthritis or rheumatoid arthritis; diabetes; hyperinsullnaemia and hypoinsullnaemia. The continuous precipitation assays. The present sequence represents a cDNA concoding a PRO polypeptide of the invention.

Sequence 2586 BP; 631 A; 679 Ç 703 G; 573 Ŧ, 0 other;

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                                 Query Match
Best Local Similarity
Matches 2586; Conser
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        CGCCGCGCTCCCGCACCCGCGCCCACCGCCGCTCCCGCATCTGCACCCGCAGC
                               100.0%; E
100.0%; E
tive 0;
                                 Score 2586;
Pred. No. 0;
0; Mismatches
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961 GCCTCCTCTGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCTGCTGCTGG 1020	781 ACCAGAGGACTGCCAGCCGGGCTTGTGCTTCCAGAGAGGCCTGCTGTTCCCTG 840 841 TGTGCACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGG 900 841 TGTGCACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGG 900 841 TGTGCACACCCCTGGCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGG 900 901 ACCTCATCACCTGGGAGGCTAGAGCCTGATGGATGGACCGATGCCCTTGTGCCAGTG 960 901 ACCTCATCACCTGGGAGGCTAGAGCCTGATGGAGCGTTGGACCGATGCCCTTGTGCCAGTG 960 901 ACCTCATCACCTGGGAGGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTG 960	661 CATGCCGGGGCCAAGGATGCTCTGCACCCGGGACAGTGAGTG	41 AGACAGTTATCACATCTGTGGGAGACGAAGAAGGAAGGAGGAGGAGCACGAGTGCATCATCG	361 AAGAGATGAAGAAGAAGCTGCTGATAAGCATCACAAGATGAAACTACAAACT 420 421 TACCTCCAGCTATCACAATGAAGACCAACACAGACACGAAGGTTGGAAATAATACCATCC 480	241 CTCCAGTCHAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGA 300 241 CTCCAGTCHAGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGA 300 241 CTCCAGTCHAGCCCGGCCTCTCAGCTACCCGCAGGAGGAGGACGCCACCCTCAATGAGA 300 301 TGTTCCGCCAGGTTGAGGAACTGATGGAGGACCACACAATTGCCAACTTGCCAGCACCAGCGCGTGG 360 301 TGTTCCGCCAAGGTTGAGGAACTGATGGAGGACCGCAGCACAAATTGCCCACCCGTGG 360 361 AAGAGATGGAGCAGAAGATGGATGGAGGACCGCAGCACAAATTGCGCAACCTGTGCAAACT 420	61 CCGGCGGCTCCCGGCGGAGCAGATCCAGTCCGGCCCGCAGCGAACTCGGTCCA 120
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ACA60194 standard; cDNA; 2586 BP.
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                                         New transmembrane polypeptides and nucleic acids encoding the polypeptides, useful in gene therapy, in chromosome identification, chromosome markers, in generating probes and in tissue typing -
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CC nucleic acid sequence identity to a nucleotide sequence encoding one of CC fl secreted/transmembrane polypeptides, or PRO polypeptides or encoding a CC PRO protein extracellular domain. Also included are a vector comprising CC the PRO nucleic acid, a host cell comprising the vector, producing a PRO polypeptide (by culturing the host cell for the expression of the PRO CC polypeptide (by culturing the host cell for the expression of the PRO CC polypeptide, and recovering the PRO polypeptide from the cell culture), CC in isolated PRO polypeptide (having at least 80% sequence identity CC in isolated PRO polypeptide (in the specification); or (c) an amino acid sequence selected from the 61 PRO proteins; (b) an amino acid sequence encoded by a nucleic acid molecule deposited CC with an ATCC number (detailed in the specification); or (c) an containing the polypeptide), a chimmeric molecule comprising a PRO CC polypeptide of fused to a heterologous amino acid sequence, an anti-PRO CC polypeptide of the approach of periode and a sample suspected of CC containing the polypeptide, linking a bioactive molecule to a cell captivity of a cell expressing a PRO245 or PRO1868 in a sample suspected of CC containing the polypeptide, linking a bioactive molecule cacids which carries which may be used in the development and screening of therapeutically useful reagents. The nucleic acids may also be used in the development and screening of therapeutically useful reagents. The nucleic acids may be used in CC containing probes. The PRO polypeptides are useful as molecular markers, or in Generating probes. The PRO polypeptides are useful as molecular markers are useful acids may be used in tissue typing. Anti-PRO antibodies and contained acids may be used in the sequence of protein electrophoresis, and the isolated nucleic acids may be used in containing the protein acids may be used in the protein acids may be used in the protein acids may be used in the protein acids may be used to protein the protein acids may be used in the prote Query Match Best Local Similarity Matches 2586; Conserv Sequence 2586 BP; 631 A; 679 C; 703 G; 573 T; 0 other; 541 361 481 481 421 421 361 301 301 241 181 181 121 121 61 61 AGACAGTTATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAGCCACGAGTGCATCATCG TACCTCCCAGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAATACCATCC TGTTCCGCGAGGTTGAGGAACTGATGGAGGACACACACAAATTGCGCAGCGCGGTGG CTCCAGTCAAGCCCGGCCCGGCTCTCAGCTACCCCGCAGGAGGAGGCCCACCCCCAATGAGA GTCGGGGCGGCCGCCGGCAGAGCGGAGATGCAGCGGCTTGGGGGCCACCCTGCTGT CCGGCGGCCTCCCGGCGGAGCGAGCAGATCCAGTCCGGCCCGCAGCGCAACTCGGTCCA CCGGCGGCCTCCCCGGCGGGAGCGAGCAGATCCAGTCCGGCCCGCAGCGCAACTCGGTCCA CGCCGCGCTCCCGCACCCGCGGCCCGCCACCGCGCGCTCCCGCATCTGCACCCGCAGC CGCCGCGCTCCCGCACCCGGGGCCCACCGCGCGCGCTCCCGCATCTGCACCCGCAGC AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACT CTCCAGTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGACGCCACCCTCAATGAGA TGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGG 100.0%; Score 2586; ilarity 100.0%; Pred. No. 0; Conservative 0; Mismatches DB 25; , , Indels Length 0 480 420 300 300 240 180 180 120 120 60 540 480 420 360 밁 Ş Ŕ δ 밁 뮍 S 맑 Ş 8 뮍 Ś 밁 S Š 뮍 밁 В Ş 맑 Ş 밁 γ 밁 8 밁 Ş Š 밁 밁 8 맒 뮍 8 S 밁 1441 1381 1381 1321 1261 1141 1081 1021 1561 1201 1021 961 961 901 901 841 661 109 541 841 781 781 721 661 721 AAATGCAACAAATGAATTTTCCACGCAGTTCTTTCCATGGGCATAGGTAAGCTGTGCCTT GCCACCCCTGTCCAGATTATTGGCTGCTTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGT TCTACATGGCTTTGATAATTGTTGAGGGGAGAGATGGAAACAATGTGGAGTCTCCCTC GCCACCCTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGT TCCCCTCTGGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCCAGGCTGTTCT GGTGTGTGTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCCTACAGTAAGTT GGTGTGTGTGTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCCTCCAGTAAGTT AAGAGATGGCGCTGGGGGAGCCTGCGCGCTGCCGCTGCACTGCTGGGAGGGGAAGAGA 1200 TTGGCAGCTTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGGAGCCTGACTG GGAGCCGTGACCAAGATGGGGGAGATCCTGCTGCCCAGAGAGGGTCCCCGATGAGTATGAAG GCCTCCTCTGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGG GCCTCCTCTGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGG ACCTCATCACCTGGGAGCTAGAGCCTGGATGGACCGATGCCCTTGTGCCAGTG ACCTCATCACCTGGGAGCTAGAGCCTGATGGAGCCTTTGGACCGATGCCCCTTGTGCCAGTG ACCAGAGGGACTGCCAGCCGGGGCTGTGCTGTGCCTTCCAGAGAGGCCTGCTGTTCCCTG ACCAGAGGGACTGCCAGCCGGGGCTGTGCTGTGCTTCCAGAGAGGGCCTGCTGTTCCCTG GTGTCTGGGGTCACTGCACCAAAATGGCCACCAGGGGCAGCAATGGGACCATCTGTGACA ACGAGGACTGTGGGCCAGCATGTACTGCCAGTTTGCCAGCTTCCAGTACACCTGCCAGC ACGAGGACTGTGGGCCCAGCATGTACTGCCAGTTTTGCCAGCTTCCAGTACACCTGCCAGC AGACAGTTATCACATCTGTGGGAGACGAAGAAGGCAAGAAGGAGCCACGAGTGCATCATCG TGATTGGTTTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAA CCAGGCTTCACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTT CCAGGCTTCACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTT GGAGCCGTGACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAG TTGGCAGCTTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGGACCTGACTG TGTGCACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGG 1680 1620 1560 1500 1440 1440 1380 1320 1260 1260 1200 1140 1140 1080 1080 1020 1020 1560 840 780 720 660 660 960 960 900 900 840 780 720 1620

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The invention describes novel isolated PRO polypeptides. The PRO CC polypeptides or anti-PRO antibodies are useful in preparing a medicament CC for treating a condition that is responsive to the PRO polypeptide or antibody. The PRO nucleotide sequences may be used as hybridisation CC probes in chromosome and gene mapping, or in generating antisense RNA CC and DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, CC in assays to identify other proteins or molecules involved in binding CC reaction, to generate transgenic animals or knockout animals, which in CC turn are useful in the development and screening of therapeutically CC useful reagents, for chromosome identification, and tissue typing. The PRO polypeptides and nucleic acid molecules are also useful in gene CC therapy, and as molecular weight markers for protein electrophoresis CC purposes. The anti-PRO antibodies may be used in diagnostic assays for PRO, or for the affinity purification of PRO from recombinant cell CC culture or natural sources. This sequence encodes a novel human CC contend and transmembrane PRO recombination.
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Best Local Similarity
Matches 2586; Conserva
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	cgccgcgcTcCccgcAcccgcggcccGccAccgcgcGcGcTcCcGcATCTGCACCGGAGC 6	Query Match 100.0%; Score 2586; DB 25; Length 2586; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;	Sequence 2586 BP; 631 A; 679 C; 703 G; 573 T; 0 other;	resent cDNA sequences encoding the human Finvention.	1-PRO antibody. Anti-PRO antibodies are useful in diagrays for PRO, by detecting its expression in specific coarse or serum, and for affinity purification of PRO for a finite province of PRO for a finite province or serum.	peptides, and the polynucleotide sequences encoding them. polypeptides are secreted and transmembrane proteins. The peptides and polynucleotides are useful for preparing a cament useful in the treatment of a condition responsive t	closure; Fig 7; 40	XX Novel monoclonal antibody that binds to secreted and transmembrane PT polypeptide, useful for detecting and purifying the polypeptide and PT also for treating conditions responsive to the antibody	WPI, 2003-331484/31. P-PSDB; ABU72112.	Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ; Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;	(GETH) GENENTECH INC.	06-DEC-2001; 2001US-0006867.	01-MAY-2002; 2002US-0063502.	US2003023042-A1.	Homo sapiens.	Human; PRO polypeptide; secreted and transmembrane protein; anti-PRO antibody; diagnostic assay; gene expression; gene; ss.	cDNA encoding human PRO polypeptide #4.	13-JUN-2003 (first entry)	ACA63376 standard; cDNA; 2586 BP. ACA63376;		2581 AAAAA 2586 	21 AAGTTGCAT	521 AAGTTGCATTTAGAAATCAAGCATAAATCACTTCAACTGCAAAAAAAA	2461 TAAAGTTGCACATGATTGTATAAGCATGCTTTCTTTGAGTTTTAAATTATGTATAAACAT 2520
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                                                                           CTTTGGCAGTTGCATTAGTAACTTTGAAAGGTATATGACTGAGCGTAGCATACAGGTTAA
                                                                                                          CTTTGGCAGTTGCATTAGTAACTTTGAAAGGTATATGACTGAGCGTAGCATACAGGTTAA
                                                                                                                                                                         GTTCTCACAGTGTGGGGCAGCCGTCCTTCTAATGAAGACAATGATATTGACACTGTCCCT
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ACA05532 standard; cDNA; 2586 ΒP

ACA05532;

29-MAY-2003 (first entry)

cDNA encoding human secreted protein PRO295

Human, gene therapy, mucosal lesion; ulcer; enterocolitis; skin disease; psoriasis; cancer; lung cancer; colon cancer; nerve cell disease; Alzheimer's disease; Parkinson's disease; Usher syndrome; angiogenesis; atrophia areata; inflammatory disease; asthma; rheumatoid arthritis; ischaemia; ss;

US2003023054-A1

30-JAN-2003

2001US-0906742

14-SEP-1998; 16-SEP-1998; 17-SEP-1998; 01-DEC 08-SEP-1999; 10-SEP-1998; -1998 98WO-US18824. 98WO-US19177. 98WO-US19330. 98WO-US19437. 99WO-98WO-US25108 99WO-US20594 99WO-US20944)-US21090.)-US21547. -US25108

13-SEP-1999;
15-SEP-1999;
15-SEP-1999;
25-OCT-1999;
29-NOV-1999;
30-NOV-1999;
01-DEC-1999;
02-DEC-1999;
16-DEC-1999;
16-DEC-1999;
20-DEC-1999;
20-DEC-1999;
20-DEC-1999;
16-DEC-1999;
16-DE 99WO-US23089 99WO-US28214 99WO-US28313 99WO-US28313 99WO-US28301 99WO-US28564 99WO-US30095 99WO-US30095 99WO-US30199 2000WO-US0156 2000WO-US0316 2000WO-US03414 2000WO-US04414

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97US-05285P

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Ashkenazi A,

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Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ; Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D; Williams PM, Wood WI; A

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ŏ	TACCTCCCAGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAATACCATCC 48	421	뮍
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	sequence represents an cDNA which encodes a FRC porypeptitue:	present :	¥ 2
	and in various diagnost	rheumato	86
·	inson's disease, Usher syndrome,	e.g. Alzi	388
	e.g. urcers and enterocutics, sain disease cell disease	mucosai .	2 5
	the polypeptide or antibody	treating	888
	nd screening of therapeutically useful reagents. The PR	development	38
O	imals or knock-out animals which, in turn, are useful	tranageni	86
	The polynucleotide may also be used in preparing PRO	gene therapy.	388
	biology, including uses as hybridisation probes, d dene mapping in denerating antisense RNA and I	in molecular	38
	(secreted and transmembrane). The	Typ 1	88
	8; Fig 83; 481pp; English.	ample	XX PS
	KNA and DNA, and in creating cancer and Arzhetmer a urseus	antisense	X F
	PRO1868, useful in chromosome and gene mapping, in generat	PRO245 or	ילי קרו בין קרון
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11-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; gene; ss; PRO; secreted; transmembrane; pharmaceutical; diagnostic; biosensor; bioreactor; therapeutic; hyperplasia; endometriosis; cancer; tumour; ischaemia; coronary arterial disease; polycystic kidney disease; renal failure; inflammatory response; asthma; rheumatoid arthritis; psoriasis; multiple sclerosis; gene therapy; cytostatic; gynecological; cardiant; nephrotropic; hepatotropic;
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2000WO-US05004.
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2000WO-US058439.
2000WO-US14042.
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CCGGCGGCCTCCCGGCGGGAGCGAGCAGATCCAGTCCGGCCGCCAGCGCAACTCGGTCCA 120 Query Match Best Local S Matches 2586

Similarity

100.0%;

Score 2586; Pred. No. 0; 0; Mismatches

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Indels

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2586; 0,

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Conservative

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Sequence

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631 A; 679 C;

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573 T; DB 25; 0 other;

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The invention discloses isolated PRO secreted/transmembrane polypeptides cand the nucleic acid encoding them. The polypeptides can be used to CC and the nucleic acid encoding them. The polypeptides can be used to CI linking a bioactive molecule to a cell expressing a PRO protein and for CC modulating at least one biological activity of a cell. The PRO CC polypeptides or polymuclsotides are also useful as pharmaceuticals, CC diagnostics, biosensors or bioreactors, for detecting or treating e.g. CC hyperplasia, endometriosis, cancers (e.g. those involving solid tumours), CC (ischaemia, coronary arterial disease, polypystic kidney disease, chronic cor acute renal failure, or inflammatory responses (e.g. asthma, CC penson and arthritis, psoriasis or multiple sclerosis) in mammals. The CC effective gene may also be used in gene therapy, particularly for replacing a CC defective gene. The sequences presented in ABS96017-ABS96378 are the CC genes encoding, the primers amplifying and the probes detecting the PRO CC polynucleotides of the invention.
                                                                                                                                                                                                                                                                                                                                                                                       Ashkenazi A, Botsto
Filvaroff E, Fong (
Godowski PJ, Grima
Mather JP, Pan J,
                                                                                                                                                                                                                                                                 New secreted and transmembrane PRO polypeptides (e.g. pRO533 or and genes encoding them, useful for detecting or treating e.g. hyperplasia, endometriosis, cancers, ischemia, coronary arterial disease or inflammations -
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Fong S, Gao W
Grimaldi JC,
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2000US-0665350
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H, Hillan KJ,
Stewart TA,
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Kljavin IU;
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661 CATGCCGGGGCCAGAGGATGCTCTGCACCGGGACAGTGAGTG	
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TCTCTCAGCACAGCCTGGGGAGGGGGTCATTGTTCTCCTCGTCCATCAGGGATCTCAGAG 1860 CCTCAGAGACTGCAAGCTGCTTGCCCAAGTCACACACCTAGTGAAGACCAGAGCAGTTC 1920 GCTCAGAGACTGCAAGCTGCTTGCCCCAAGTCACACAGCTAGTGAAGACCAGAGCAGTTTC 1920 GCTCAGAGACTGCAAGCTGCTTGCCCCAAGTCACACAGCTAGTGAAGACCAGAGCAGTTTC 1920 GCTCAGAGACTGCAAGCTGCTGCCCCAAGTCACACAGCTAGTGAAGACCAGAGCAGTTTC 1920 ATCTGGTTGTGAACTCTAAGCTCAGTGCTCTCTCCACTACCCCACACCAGCCAG	ARABARTGGCCTGGGGGAGCCTGCGGCTGCAATAGAAATAGCTAATTTATTT

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05-OCT-1999;
01-DEC-1999;
02-DEC-1999;
02-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rheumatoid arthritis; asthma; multiple sclerosis; organ failure; atherosclerosis; cardiac injury; infertility; birth defect; premature aging; AIDS; acquired immunodeficiency syndrome; cancer.
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17-SEP-1998;
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CGCCGCGCTCCCGCACCCGCCGCCCACCGCGCCCCCCCCACCGCATCTGCACCCGCAGC 60

Query Match
Best Local Similarity
Matches 2586; Conser

100.0%; i ilarity 100.0%; i Conservative 0;

Score 2586; Pred. No. 0; 0; Mismatches

0,

Indels

0

Gaps

BB

Length 2586;

Sequence

2586 BP;

631 A; 679 C;

703 G; 573

T; 0 other;

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CC amino acid sequence identity to: (a) any one of 61 fully defined amino acid sequences given in the specification (appearing as ABU5447-cx ABU5447); (b) an amino acid sequence encoded by the nucleotide sequence CC ABU5447); (b) an amino acid sequence encoded by the nucleotide sequence CC isred under American Type Culture Collection (accession numbers CC listed in the specification); (c) any one of the PRO sequences which CC lacks its associated signal peptide; (d) an extracellular domain of the PRO polypeptide which lacks its associated consisted signal peptide which lacks its associated consisted with abnormal keratinocyte differentiation, e.g. psoriasis converted with respectations, although the PRO converted with abnormal keratinocyte differentiation, e.g. psoriasis converted in lateral sclerosis, psoriasis converted atthicts, asthma or multiple converted with a sequence such as squamous cell cardinoma, Alzheimer's converted atthicts, asthma or multiple converted with respectations, and respectations, and respectations, and tissue that of the sequences may be used as hybridisation probes in chromosome codes are also useful for wound converted as a sequence with respectation, and tissue typing. The PRO converted with respectation, and tissue typing. The PRO converted with respectation, and tissue typing. The PRO converted with respectation of PRO from recombinant cell column to or natural sources. The process of t
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17-SEP-1997;
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17-SEP-1997;
15-OCT-1997;
17-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New PRO polypeptides and nucleic acid molecules, useful in diagnosing or treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, cancer, AIDS, Alzheimer's disease or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski PJ, Grimaldi
Mather JP, Pan J, Pa
Williams PM, Wood WI;
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Filvaroff E,
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P-PSDB; ABU54387.
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                                    polypeptide.
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01 GTTCTC	O Db	1021 GGAGCCGTGACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAG 1080
2041 ATTAAGGTCAAACTBAATTCTGACAATCCCTCTGAAAAGTAAACTBACTGTTAGGAACAGCAGT 2100	O B Q	61 GCCTCCTCTGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCT
981 CCAAAAGTGCTCCCCAAAAGGAAGGAGAATGGGATTTTTCTTGAGGCATGCACATCTGGA	Qy Db	ACCTCATCACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTG 9 ACCTCATCACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTG 9
	Qγ	TGTGCACACCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGG 90
	Qy	ACCAGAGGACTGCCAGCCGGGGGCTGTGCTGCTGCTCCAGAGAGGCCTGCTGTTCCCTG 84
1801 TCTCTCAGCACAGCCTGGGGAGGGGTCATTGTTCTCCTCGTCCATCAGGGATCTCACAG 1860	dd Vy	GTGTCTGGGGTCACTGCACCAAAATGGCCACCAGGGGGAGCAATGGGACCATCTGTGACA 78
	Qy db	CATGCCGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTG
681 CAGCTGTTGCAGATGAAATGTTCTGTTCACCCTGCATTAATGTGTTTATTCATCCAGCA 681 CAGCTGTTGCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCA 681 CAGCTGTTGCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCA 681 CAGCTGTTGCAGATGAAATGTTCTTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCA	QY	acgaggactgraggcccagcargtactgccagtrtgccagctrccagracaccro
21 AAATGCAACAATGAATTTTCCACGCAGTTCTTTCCATGGCATAGGTAAGCTGTGCCTT	Q QQ	41 AGACAGTTATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAAG
GOTTTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAA 	QY	ATGTGCACGAGAATTCACAAGATAACCAACAACAGACTGGACAAATGGTCTTTTCAG 54
1 TCTACATGGCTTTGATAATTGTTTGAGGGAGGAGATGGAAACAATGTGGAGTCTCCCTC	Qy	21 TACCTCCCAGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAATAA
CTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGT 	dg Qy	61 AAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACT 42
1381 CCAGGCTTCACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTT 1440	D Qy	01 TGTTCCGCGAGGTTGAGGAACTGATGGAGGACAGCACCACAAATTGCGCAGCAGCAGCGCGGTGG 36
1321 TCCCCTCTGGCTTGACAGCATGAGGTGTTGTTGCATTTGTTCAGCTCCCCCAGGCTGTTCT 1380	Qy dd	41 CTCCAGTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGA 3
61 GGTGTGTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTT	QV QV	81 GCTGCTGCTGGCGGCGGCGGGCGCCCGCGCGCGCGCGCG
	g VQ	GTCGGGGCGCCGCCTGCCGGCGCAAAGCCGAAGATGCAGCCGCTTGGGGCCAACCCTGCTGT 18
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This invention relates to a protein designated REIC (reduced expression immortalised cells) which inhibits proliferation. REIC shows reduced or suppressed expression in immortalised cells such as cancer cells. The	oliferation inhibitiliagnosis and therap	Namba M, Tsuji T; WPI; 2001-367688/38. P-5678. 2267468	19-NOV-1999; 99JP-0330604. (HISM) HISAMITSU PHARM CO LTD.	31-MAY-2001. 30-AUG-2000; 2000WO-JP05879.	/product="Reduced expression in immortalised cells protein" /note= "Reduced expression in immortalised cells protein" WO200138528-A1.		n; ds.	reduced expression in	H45490; [fixet	LT 16	2581 AAAAAA 2586 2581 AAAAAA 2586	2521 AAGTTGCATTTAGAAATCAAGCATAAATCACTTCAACTGCAAAAAAAA	2461 TAAAGTIGCACATGATIGTATAAGCATGCTTTCTTTGAGTITTAAATTATGTATAAACAT 2520 1461 TAAAGTIGCACATGATIGTATAAGCATGCTTTCTTTGAGTTTTAAATTATGTATAAACAT 2520	2401 TGATGTTTTCAGGTGTCATGGACTGTTGCCACCATGTATTCATCCAGAGTTCTTAAAGTT 2460	2341 TGTGTGAAACATGGTTGTAATATGCGACTGCGAACACTGAACTCTACGCCACTCCACAAA 2400 	2281 CACTIAGGAGCAACTGAAGACAATTATCAACCACGTGGAGAAATCAAACCGAGGAGCAGGGC 2340	221 CCTGCAGAAACAGTACTTAGGTAATTGTAGGGCGAGGATTATAAATGAAATTTGCAAAAT
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dickkopf3; ds.
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                                                                                                                                                                                                Human dickkopf3
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(AXOR-) AXORDIA LTD
                         04-MAY-2001; 2001GB-0011004
                                                   29-APR-2002; 2002WO-GB01946.
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WPI; 2003-120579/11. Andrews שׁ Draper J, Walsh

Identifying biologically active agents comprises cloning transfected cells into a cell array, exposing the array to an agent to be tested, and detecting signals generated by a reporter molecule as a result of exposure to the agent

Claim 19; Fig 22; 90pp; English

The present invention relates to a novel screening method which enables the identification of biologically active agents which mediate their ceffect through the activation of genes. The method involves providing a copulation of cells stably transfected with a nucleic acid encoding a copulation of cells stably transfected with a nucleic acid encoding a copulation of the array, to at least one agent to be tested and detecting a copulation of the reporter molecule as a result of exposure to the agent. The method is useful in identifying biologically active agents and the genes through which the agents act, in screening potential drugs for their ability to activate certain drug targets in a high-throughput assay, in identifying relationships between signalling pathways and considered the signals that could be useful in eventually directing the coldiferentiation of embryonic stem cells and in toxicology assays by testing for unwanted activation or inhibition of specific signalling pathways. The present sequence is human dickkopf3 DNA used to illustrate the method of the invention.

Sequence 2450 BP; 595 A; 622 C; 664 G; 569 T; 0 other;

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666 CGGGGCCAGAGGATGCTCTGCACCGGGGACAGTGAGTGCTGTGGAGACCAGCTGTGTGTC 725	488 GACTGTGGGCCAGCATGTACTGCCAGTTTGCCAGTACACCTGCCAGCCA	606 GACTGTGGGCCCAGCATGTACTGCCAGTTTGCCAGCTTCCCAGTACACCTGCCAGCCA	428 GTTATCACATCTGTGGGAGACGAAGAAGGCAGAGGAGTGCATCATCGACGAG 487	546 GTTATCACATCTGTGGGAGACGAAGAAGGAAGGAAGGAGCCACGAGTGCATCATCGACGAG 605	368 CACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAGAGACA 427	486 CACCGAGAATTCACAAGATAACCAACAACCAGACTGGACAATGGTCTTTTCAGAGACA 545	308 CCCAGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAATACCATCCAT	426 CCCAGCTATCACAATGAGACCAACAGAGACACGAAGGTTGGAAATAATACCATCCAT	248 ATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACTTACCT 307	366 ATGGAGGCAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACTTACCT 425	188 CGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGGAAGAG 247	306 CGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGGAAGAG 365	128 GTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGATGTTC 187	246 GTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCCTCAATGAGATGTTC 305	68 CTGCTGGGGGGGGGGGCCCGACGGCGCCCCGCGCGCCCGGTCCGACGGCGACCTCGGCTCCA 127	186 CTGCTGGCGGCGGGCCCACGGCCCCGCGCTCCGACGGCGCACCTCCGGCTCCA 245	8 GECGGCGGCTGCGGGCGCAGAGCGGAGATGCAGCGGCTTGGGGCCACCCTGCTGTGCCTG 67	126 GGCGGCGGCTGCGGGCGCAGAGCGGAGATGCAGCGGCTTTGGGGCCACCCTGCTGTGCCTG 185	al Cimilarity 99.9%; Prod. No. 0; 2435; Conservative 0; Mismatches 0; Indels	87 08. SCOTE 3255. DH 35.

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	1746 GCTCAGCTCCTACCTCTGTGCCAGGGCAGTTTTCATATCCAAGATCAATTCCCTCTCT 1805
	1686 GTTGCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCAGTGTT 1745
×××□	1626 CAACAAATGAATTTTCCACGCAGTTCTTTCCATGGGCATAGGTAAGCTGTGCCTTCAGCT 1685
	1566 GGTTTTGGGGAAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAAAAATG 1625
	1506 ATGGCTTTGATAATTGTTTGAGGGGAGGGAGATGGAAACAATGTGGAGTCTCCCTCTGATT 1565
TJ &	1446 CCCTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTAC 1505
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	1086 AGCTTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGGAGCCTGACTGA
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	846 ACACCCCTGCCCGTGGAGGCGAGCTTTGCCATGACCCCGGCAGCCGGCTTCTGGACCTC 905
o a c	786 AGGGACTGCCAGCCGGGGCTGTGCTGTGCCTTCCAGAGAGGCCTGCTGTTTCCCTGTGTGC 845
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	548 CGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTGCTGTGGGAGACCAGCTGTGTGTC 607

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          TTGCATTTAGAAATCAAGCATAAATCACTTCAACTGC
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RESULT 19
ABX75308
ID ABX75
XX Human cDNA for dickkopf3. ABX75308; ABX75308 standard; cDNA; 2450 25-MAR-2003 (first entry) 8₽.

Gene; Notch; wnt; embryonic stem cell; embryogenesis; ss; differentiation; ligand; Parkinson's disease; Huntington's disease; motor neuron disease; hart disease; diabetes; liver disease; human; cirrhosis; renal disease; AIDS; acquired immunodeficiency syndrome. Homo sapiens.

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CC comprising: (a) providing a cell transfected with a nucleic acid molecule (ii) and which encodes a ligand capable of modulating embryonic stem cell; (ii) and which encodes a ligand capable of modulating embryonic stem (c) and which encodes a ligand capable of modulating embryonic stem (c) in uncleic acid molecules which are degenerate as a result of the genetic code to the sequences of (i) or (ii); (b) forming a culture (c) growing the cell identified in (a) with an embryonic stem cell; and (c) growing the cell; (c) Inhibiting the differentiation of embryonic stem cell; (d) Inhibiting the differentiation of embryonic stem cell; and (c) growing at least one polypeptide or its (c) growing a culture comprising the cell identified in (a) with an embryonic stem cell; and (c) growing the cell transfer for the maintenance of (c) forming a culture comprising the cell identified in (a) with an embryonic stem cell; and (c) growing the cell transfer for the maintenance of (c) the molecule of (i) an undifferentiated from: (i) a molecule which hybridises (c) the molecule of (i) and encodes a polypeptide crome; (i) a molecule which hybridises (c) the molecule of (i) and encodes a polypeptide capable of inhibiting cell; and (c) growing the cell undertified in (a) with an embryonic stem cell; and (c) growing the cell undertified in (a) with an embryonic stem (c) in a molecule which hybridises (c) a culture comprising the cell identified; (ii) a molecule which hybridises (c) a culture comprising the cell identified; (ii) a molecule which have been cell; and (c) growing the cell identified in (a) with an embryonic stem (c) in a molecule of (i) or (ii); (b) forming (c) growing the cell identified in (a) with an embryonic stem (c) or (ii); (b) forming (c) growing the cell identified in (a) with an embryonic stem (c) or (ii); (b) forming (c) growing the cell identified in (a) with an embryonic stem (c) or (ii); (b) forming (c) growing the cell identified in (a) with an embryonic stem (c) or (ii); (b) forming (c) growing the cell
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-MAR-2001; 2001GB-0007296.
23-MAR-2001; 2001GB-0007299.
17-APR-2001; 2001GB-0009346.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Modulating the differentiation of embryonic stem cells by providing ligands which bind receptors in the Notch and Wnt pathways, useful treating diseases such as Parkinson's, Huntington's, heart disease, diabetes and AIDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Fig 28; 121pp; English
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                                                     This invention relates to a protein designated REIC (reduced expression in immortalised cells) which inhibits proliferation. REIC shows reduced or suppressed expression in immortalised cells such as cancer cells. The invention includes DNA and protein sequences for REIC. The protein is useful for the treatment and diagnosis of a wide range of benign and malignant tumours and of viral infections (including HIV, influenza, hepatitis and Epstein-Barr virus). The present sequence represents DNA encoding REIC.
                                                                                                                                                                                                                                                                                                                        Claim 2; Page 59-60; 66pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                Cell proliferation inhibiting protein REIC and polynucleotide encoding it for diagnosis and therapy of cancer and as an antiviral agent
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               The invention relates to an isolated molecule comprising an antibody variable region which specifically binds to an extracellular domain of tumour endothelial marker (TEM) protein selected from ABB90732, ABB9074 ABB90749, ABB90750 and ABB90769. The antibodies which bind to TEM proteins have cytostatic, immunostimulant and antiangiogenic activity. They are useful for inhibiting tumour growth, neongiogenesis in subjects bearing a vascularised tumour, polycystic kidney disease, diabetic retinopathy, rheumatoid arthritis and psoriasis. Human, mouse and rat TEM genes and the encoded proteins (ABL99075-ABL92141 and ABB90721-ABB90789) are disclosed, as are marker oligonucleotide sequences: tumour endothelial markers (TEM) ABL91996-ABL92041 and ABL92143-ABL92191, normal endothelial markers (NEM) ABL91996-ABL92042-ABL92074; and pan-endothelial markers (PEM) ABL91993-ABL92042-ABL92074;
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The present invention relates to a novel method for the isolation of endothelial cells (ECs), and the identification of genes expressed in normal and tumour ECs. Tumour endothelial marker (TEM), normal endothelial marker (NEM), and pan-endothelial marker (PEM) genes are identified in human ECs. The human EC marker proteins and the polynucleotide sequences encoding them are useful for detecting,
                                                                                                                                     New purified human transmembrane protein, designated as tumour endothelial marker (TEM) 3, useful for detecting, diagnosing or treating tumours, polycystic kidney disease, diabetic retinopathy rheumatoid arthritis or psoriasis
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06-FEB-2002;
                                                                                                        Disclosure; Page 158-160; 374pp; English
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      AGGGACTGCCAGCCGGGGCTGTGCTGTGCCTTCCAGAGAGGCCTGCTGTTCCCTGTGTGC
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99.9%; Pred. No. 0;
tive 0; Mismatches
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The sequence is that encoding cerebellum and embryo specific protein (CESSP). CESP is involved in: (i) the regulation of collateral circulation (particularly in the heart), coronary artery restenosis (CI circulation (particularly in the heart), coronary artery restenosis (CI circulation of myocyte development in the developing heart; (ii) the CI cregulation of circulating blood volume, vascular tone, blood pressure and CI cardiac output, diuresis, natriuresis; (iii) facilitation of transudation of plasma water to the interstitium, and (iv) inhibition of the release (CI or action of hormones such as aldosterone, angiotensin II, endothelins, (CI crenin and vasopressin. The products can be used in the diagnosis and CI treatment of CESP related disorders, e.g. coronary restenosis following (coronary revascularisation, coronary artery thrombus or occlusion, (CI myocardial infarction, atrial and/or ventricular arrhythmias, heart (CI cardiomyopathy, arrhythmogenic right ventricular dysplasia, atherocce sclerotic heart disease, venous thrombosis or Reynaud's syndrome.
Sequence 2490 BP; 606 A; 629 C; 679 G; 576 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      infarction, heart disease and artery or venous thrombosis
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DB 19; 1;

Length Indels

2490; 2;

Gaps

GTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGATGTTC GTTATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAGCCACGAGTGCATCGACGAG GTTATCACATCTGTGGGAGACGAAGAAGGCAGAGGAGCCACGAGTGCATCATCGACGAG CACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAGAGACA ATGGAGGCAGAAGAAGCTGCTGAAAGCATCATCAGAAGTGAACCTGGCAAACTTACCT ATGGAGGCAGAAGAAGCTGCTGCTAAAAGCATCATCAGAAGTGAACCTGGCAAACTTACCT CGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGGAAGAG GTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAGATGTTC CTGCTGGCGGCGGCGGTCCCCACGGCCCCCCGCGCCCCGCTCCGACGGCGACCTCGGCTCCA CTGCTGGCGGCGGTCCCCACGGCCCCCGCGCCCCGCTCCGACGGCGACCTCGGCTCCA GGCGGCGGCTGCGGGCGCAGAGCGGAGATGCAGCGGCTTGGGGGCCACCCTGCTGCCTG CACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAGAGACA CGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGGAAGAG TGGGGTCACTGCACCAAAATGGCCACCAGGGGCAGCAATGGGACCATCTGTGACAACCAG TGGGGTCACTGGACCAAAATGGCCACCAGGGGGCAGCAATGGGACCATCTGTGACAACCAG CGGGGCCAGAGGATGCTCTGCACCCGGGACAGTGAGTGCTGTGGAGACCAGCTGTGTGTC сеееессадаееатестстесасссеееасаетелетестетееаеасассаестетете 185 545 425 245 105 845 785 645 725 585 665 525 465 405 485 345 285 365 225 305 165 705 605

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             TTGCATTTAGAAATCAAGCATAAATCACTTCAACTGC
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Homo
                                                                                                    DKK-3; detection; schizophrenia; neuroleptic; vaccine;
neuralgic defect; neuropsychiatric disorder; human; ds.
                                                                                                                         Human DKK-3 DNA.
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                                                                                                                                                    AAI69309;
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24-FEB-2000; 2000GB-0004412
              26-FEB-2001; 2001WO-IB00259
                           30-AUG-2001
                                         WO200163295-A2
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                                                     Location/Qualifiers
38..1090
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/product= "DKK-3"
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This invention describes a novel method for detecting the presence of consideration soforms (SPIs) in samples, e.g. by electrophoresis, immunoassay or hybridisation assay, for diagnosing and monitoring schizophrenia, consultying the effectiveness of treatments and for identifying potential therapeutic agents. The products of the invention have neuroleptic continuity and can be used in vaccines or for gene therapy. The method (I) consultity and can be used in vaccines or for gene therapy. The method (I) consultity and can be used in vaccines of schizophrenia and the relative abundance of at least 1 chosen feature correlates with the presence or consultity and consultity and for monitoring the effect of therapy. The association and activity of the SPS, SPIs and related consulted (e.g. secondary messengers) are studied to diagnose constitutions. The expression and activity of the SPS, SPIs and related continuity for the streament and as targets to identify and produce potential therapeutic agents for the treatment of schizophrenia. The paucity of detectable context and the treatment and as targets to identify and produce potential therapeutic agents for the treatment of schizophrenia. The paucity of detectable context and the identification and characterisation of cellular and/or consequently the identification and characterisation of cellular and/or improved consequently the identification and characterisation of cellular and/or improved treatment of neuropsychiatric disorders. Where manifestations of consequents of defects and neuropathies are necessary for improved treatment of neuropsychiatric disorders. This sequence encodes the human constitution of cellular and/or improved treatment of neuropsychiatric disorders. This sequence encodes the human constitution of cellular causative defects and neuropsychiatric disorders is the invention.
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15-MAR-2000; 2000GB-0006285.

24-NOV-2000; 2000GB-028734.

28-NOV-2000; 2000US-0724391.

08-DEC-2000; 2000GB-0230050.

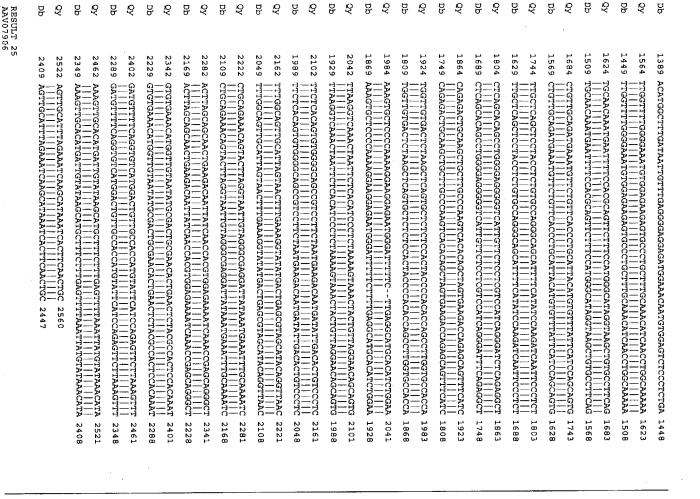
12-DEC-2000; 2000GB-0254393.

28-DEC-2000; 2000US-0750395.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 5a; Fig 2; 91pp; English
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CRSP-1; cysteine-rich secreted protein 1; tumour; cancer; leukaemia tissue repair; wound healing; infection; Parkinson's disease; Alzheimer's disease; Huntington's chorea; multiple sclerosis; amyotrophic lateral sclerosis; pontine myelinolysis; human immunodeficiency associated myelopathy; bulbar palsy; spinal muscular atrophy; primary lateral sclerosis; poliomyelitis; Pazio-Londe syndrome; Charcot-Marie-Tooth disease; therapy; diagnosis; drug screening; human; CRISPY-1; TANGO 59; signal transduction; cell differentiation; cell proliferation; ss.
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38..1090
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                                                                                                                                                                                                                                                                                                                                                       "putative mature protein sequence may span nucleotides 95-1087, 101-1087 or 107-1087"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein CRSP-1 cDNA
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20-JAN-1998; 16-APR-1997; 17-APR-1997; 15-JAN-1998; (MILL-) MILLENNIUM BIOTHERAPEUTICS

98US-0009802. 97US-0843704. 97US-0842898.

or

McCarthy SA;

WPI; 1998-568730/48 P-PSDB; AAW73016.

New isolated cysteine-rich secreted proteins - used to develop products for treating, e.g. hyperproliferative disorders, cancers, wounds, infectious lesions, degenerative lesions or demyelating diseases

Claim 1; Page 89-91; 142pp; English

This full-length cDNA clone, the coding region for which is also claimed and is deposited as ATCC 98634, codes for novel human cysteine-rich secreted protein 1 (CRSP-1, see ANW73016), also cysteine-rich secreted protein 1 (CRSP-1, see ANW73016), also creferred to CRISPY-1 and TANGO 59. A partial cDNA was isolated converted protein transmitted to the converted protein transmitted converted protein transmitted to the converted protein transmitted to the converted protein transmitted to the converted proteins or suppression of which converted proteins or suppression of which can activities: (i) modulation of cellular signal transduction); (ii) regulation of communication between cells signal transduction); (ii) regulation of communication between cells

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Matches 2431
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                                          TCCGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGTGGAAG
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1504 ACATEGETTTGATAATTGTTTGAGGGGAGAGATGGAAACAATGTGGAGTCTCCCTCTGA 1563	549 COGTIANCOLARCITYCTGGGGAAAACGAACAAACGACCAAAACGACCAAACCAAACCAAACCAAACCAAACCAAACCAAACCAAACCAAACCAAACCAAACCAAAA	CCGAGAAATTCA
RESULT 27 ABZ81839 ID ABZ81839 standard; DNA; 2124 BP. XX	624 TGCAACAAATGAATTTTCCAGGCAGTTCTTTCCATGGGCATAAGTGAAACTGTTCAGGGGGGGG	Oy 1564 TIGGTTTIGGGGAAAATGIGGAGAAGAGIGCCCTGCTTIGCAAACATCAACCTGGCAAAAA 1623

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germ cell, embryonal carcinoma cell, haematopolitic stem cell, embryonal carcinoma cell, skin dermal sheath stem cell, cell or teratocarcinoma cell. The method involves contacting the stem cell with a stem-loop RNA molecule or a nucleic contacting the stem cell with a stem-loop RNA molecule or a nucleic contacting the stem cell with a stem-loop RNA molecule or a nucleic cell dispreferably derived from one of the nucleic acid so preferably derived from one of the nucleic acid sequences in ABZ81794-844, including the present sequence, and may cell cencode a cell surface receptor expressed by a stem cell, or a ligand. The RNA molecule, the nucleic acid molecule or the vector is useful compromoting the differentiation of stem cells and for providing cell/tissues for the treatment of diseases in which cell/tissues are destroyed by the disease. These diseases include comprisions anaemia, stroke, neurodegenerative diseases such as correct of stemson's disease, or nerve damage as a consequence of trauma cell. The correct of trauma cells replacement of spinal cord tissue) (claimed).
                                                                                                                                                                                                                                         Matches
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Best Local
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                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       present sequence is the nucleic acid sequence of DKK-2.
invention relates to a method of modulating the differentiation
te of a stem cell, such as an embryonic stem cell, embryonic
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      AGATGAAATGTTCTGTTCACCCTGCATTACATGTGTT
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                                                        assay; signalling pathway; DKK 3; gene; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Sim
Matches 2121;
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/product= "DKK 3 protein"
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/transl_except= (pos:2..4, aa:Xaa)
/note= "Xaa correspnds to amino acids 1-94 of DKK 3
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                              AAACAGTACTTAGGTAATTGTAGGGCGAGGATTATAAATGAAAITTGCAAAATCACTTAG
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RESULT 29
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cc trime invention relates to modulating the differentiation of an embryonic stem cell; comprising; (a) providing at least one ligand or its active binding fragment, cc capable of binding its cognate receptor polypeptide expressed by the embryonic stem cells; (c) forming a culture comprising embryonic stem cells; (c) forming a culture comprising embryonic stem cells and the ligand; and (d) growing the cell culture. Also included creek comprising; (a) providing a cell transfected with a nucleic acid molecule condition of embryonic stem cells; comprising; (i) any of 9 fully defined with a nucleic acid molecule condition; (ii) and which encodes a ligand capable of modulating embryonic stem cell; (iii) an uncleic acid molecule that hybridises to the nucleic acid molecules of (ii) and which encodes a ligand capable of modulating embryonic stem cell; and (c) growing the cell identified in (a) with an embryonic stem cell; and (c) growing the culture for the maintenance and/or differentiation of embryonic stem cells, comprising; (a) providing at least one polypeptide or its active fragment, that are inhibitors of the Whit signalling pathway; (b) forming a culture comprising the cell identified in (a) with an embryonic stem cell; and (c) growing the cell identified in (a) with an embryonic stem cell; and (c) growing the culture for the maintenance of the molecule of (i) and encodes a polypeptide or its a culture comprising; (a) providing at cell ce encoding a Whit inhibitory polypeptide; (ii) a molecule which hybridises to the molecule of (i) and encodes a polypeptide capable of inhibiting the cell identified in (a) with an embryonic stem cell and (c) growing the cell identified in (a) with an embryonic stem cell in an undifferentiate of stem cells, and (e) with an embryonic stem cell in an undifferentiate of a cold molecules which have been cell inhibiting and (c) and the present invention is useful in the cell inhibitory between the sequences of (i) or (ii); (b) forming cell inhibiting and cold provided the maintenanc
                                                                                                                     Query Match
Best Local
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23-MAR-2001;
17-APR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Modulating the differentiation of embryonic stem cells by providing ligands which bind receptors in the Notch and Wnt pathways, useful for treating diseases such as Parkinson's, Huntington's, heart disease, diabetes and AIDS
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                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
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The human DKR-3 open reading frame has homology to human rig-like 7-1
mRNA and to chicken lens fiber protein clfest 4 gene. Human DKR-3
complexers to be secreted, with a signal peptide cleavage site after either
amino acid 20 or 21.

DKR-1 is a human ortholog of dkk-1 (dickkopf-1), a novel gene identified
in Xenopus and mouse, purportedly an antagonist of wnt-8 signaling.

DKR-2, -3 and -4 are each related to DKR-1 by their cysteine pattern.

DKR-1, is also involved in morphogenesis in the developing embryo, and
therefore a growth factor, by inference DKR polypeptides are also
composed to the polypeptides are useful for treating cancer,
composed to ended to enhance tissue differentiation, such as bone
composed to enhance tissue differentiation, such as bone
composed to enhance cell formation.
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Best Local Similarity
Matches 1053; Conserv
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      The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore mormal activity of (II) or to treat disease states involving (II). (II) is useful for generating annibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (II) and cII) are useful for treating disorders involving aberrant procesin expression or biological activity. The polypeptide and polynucleotide sequences have applications in
                                                                                                                                                                                                                                                                                                                                                     WPI;
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RESULT 36
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responsible for genetic disorders or other traits to assess bi-
and to produce other types of data and products dependent on D
amino acid sequences. AAS64197-AAS94564 represent novel human
diagnostic coding sequences of the invention.
Note: The sequence data for this patent did not appear in the
specification, but was obtained in electronic format directly
                                                                                                                                                                                                                                                                                                                                                                                                                                   4291/c
ABK84291
                                                                                                                                                                                                            Human; ss; granulocytic cell; DNA chip; bacterial infection; viral infection; parasitic infection; protozoal infection; fungal infection; sterile inflammatory disease; psoriasis; rheumatoid arthritis; glomerulonephritis; asthma; thrombosis; cardiac reperfusion injury; renal reperfusion injury; ARDS; adult respiratory distress syndrome; inflammatory bowel disease; Crohn's disease; ulcerative colitis; periodontal disease; granulocyte activation; chronic inflammation; allergy.
             Beazer-Barclay Y,
                                                                     03-OCT-2000;
                                                                                               03-OCT-2001; 2001WO-US30821
                                                                                                                                                                                     Homo
                                                                                                                                                                                                                                                                                                                                             Human cDNA differentially expressed in granulocytic cells
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Matches 294;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to detecting (M1) granulocyte (GC) activation
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                                                                                                                                                                                                                                                                            CGCCACTCCACAAATGATGTTTTCAGGTGTCATGGACTGTTGCCCACCATGTATTCATCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGCCACTCCACAAATGATGTTTTCAGGTGTCATGGACTGTTGCCACCATGTATTCATCCA
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TTATGTATAAACATAAGTTGCATTTAGAAATCAAGCATAAATCACTTCAACTGC 2275
                                                                                         TTATGTATAAACATAAGTTGCATTTAGAAATCAAGCATAAATCACTTCAACTGC 2560
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100.0%; Pred. No. 9.7
tive 0; Mismatches
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9.1e-105;
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RESULT 37
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ID AAV521
XX AAV52
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DX Homo
XX CESP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated cerebellum and embryo specific polypeptide -develop products for treating e.g. coronary restenosis, my infarction, heart disease and artery or venous thrombosis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence is that of an EST clone related
ryo specific protein (CESP) gene.
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          GATGCCCTTGTGCCAGTGGCCTCCTCTGCCAGCCCACAGCCACAGCCTGGTGTATGTGT 1002
                                                                                            CCGCCAGCCGGCTTCTGGACCTCATCACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACC
                                                                                                                                                             GAGGCCTGCTGTTCCCTGTGTGCACACCCCTGCCCGTGGA-GGNGAGCTTTGCCATGACC
                                                                                                                                                                                                           GAGGCCTGCTGTTCCCTGTGCACACCCCCTGCCCGTGGAGGCCGAGCTTTGCCATGACC
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Pred. No. 6.7e-104;
0; Mismatches 1;
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RESULT 38
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Matches 248; Conserv
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Best Local
                                                                                                                                                                                                                                                                                                                                 This invention relates to a protein designated REIC (reduced expression in immortalised cells) which inhibits proliferation. REIC shows reduced or suppressed expression in immortalised cells such as cancer cells. The invention includes DNA and protein sequences for REIC. The protein is useful for the treatment and diagnosis of a wide range of benign and made and of viral infections (including HIV, influenza, hepatitis and Epstein-Barr virus). The present sequence represents human DNA related to REIC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           proliferation
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                                                                                                                                                                                                                                                                                                         Sequence 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 61; 66pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Namba M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HISM ) HISAMITSU PHARM CO LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ll proliferation inhibiting protein REIC and polynucleotide encoding for diagnosis and therapy of cancer and as an antiviral agent
                                                                                                                            1895
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                                                                                                                                                                                                                                CATTTTCATATCCAAGATCAATTCCCTCTCTCAGCACAGCCTGGGGAGGGGGTCATTGTT
                                                                         CAGCTAGTGAAGACCAGAGCAGTTTCATCTGGTTGTGACTCTAAGCTCAGTGCTCTCTCC
                                                                                                                                                   CTCCTCGTCCATCAGGGATCTCAGAGGCTCAGAGACTGCAAGCTGCTTGCCCAAGTCACA
                                                                                                                                                                                                       CATTTTCATATCCAAGATCAATTCCCTCTCTCAGCACAGCCTGGGGAGGGGGGTCATTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                related DNA sequence SEQ ID
                                                                                                                                                                                                                                                       9.6%; So ilarity 100.0%; E Conservative 0;
                                                                                                                                                                                                                                                                                                         BP; 64 A;
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248
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                                                                                                                                                                                                                                                                                                           76 C; 60 G;
                                                                                                                                                                                                                                                        Score 248; DB 22;
; Pred. No. 9.7e-87;
0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human secreted expressed sequence tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tumour; infection;
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Jacobs K, Merberg D, WPI; 2000-317937/27 WO200021990-A1 Homo sapiens. 15-OCT-1999; 20-APR-2000 15-OCT-1998; (GEMY) GENETICS INST INC. мссоу лм, 98US-0104435 99WO-US24205 3 LaVallie 뛵, Collins-Racie LA, Evans

Isolated polynucleotides, and encoded proteins, comprising secreted expressed sequence tags (sESTs), useful for treating various disorders such as autoimmune, infectious, and central nervous system disorders -

Claim 1; Page 238; 618pp; English.

CC sequence tags (SESTS), isolated from human, mouse, xenopus and rat contributed the tissue sources. The sESTs can have a range of activities depending on the tissues they were isolated from. The activities include: chemokinetic; proliferative; immunomodulatory; haematopoletic; chemokinetic; analgesic; haemostatic; thrombolytic; antiinflammatory; cc cyrostatic; antibacterial; antifungal, antiviral; antidabetic; cartibacterial; antifungal, antiviral; antidabetic; cortopic; antiparkinsonian; antipsoriatic; cerebroprotective; cc anticonvulsant; and antidepressant. The SESTs can be used for gene cr therapy and in vaccines. The sESTs are useful as probes for the cr therapy and in vaccines. The sESTs are useful as probes for the cr therapy and in solation of full-length cDNAs and genomic DNA cr are useful in assays for determining biological activity and raising cantibodies. They may be useful for treatment of autoimmune disorders (multiple sclerosis, insulin dependent diabetes), allergic conditions costeoparthritis, central nervous system disorders (C (alzheimer's, Parkinson's, Huntington's disease, stroke), coagulation cdisease), tumours bacterial, fungal or viral infections, depression and conditions in the exemplification of the present linker variants which are given conditions. AAA41261 to AAA43419 represent specifically claimed secreted expressed sequence tags (sESTs), isolated from human, mouse, xenopus and rat

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Best Local S
Matches 219
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                                              The Expressed Sequence Tag was isolated from a human brain cDNA library as part of a large set of ESTs which can be used as markers for human genes transcribed in vivo. They can be used to facilitate tagging of most human genes, for mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for grepn. of antisense sequences, probes and constructs. EST01499 has a "good" coding probability as evaluated using the coding-region prediction program CRM. See also AAQ59041-Q61440. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                         Enriched oligonucleotides and corresp. sequences - used as markers for human genes transcribed in-vivo, facilitate tagging of most human genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gene transcription product; genetic markers; tagging; in vivo transcription; mapping; locations; chromosomes; chromosomal;
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16-MAR-1994
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Sequence 447
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                                                                                                                                                                                                                                                                                                                                                  Example 4; Page 210; 500pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Adams MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (USSH ) US DEPT HEALTH & HUMAN SERVICE
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219; Conserv
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BP; 99 A; 123 C; 105 G; 118 T; 2 other;
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(first entry)
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Pred. No. 1.9e-75;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    58 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ₽₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       64 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in vivo;
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RESULT 41
AAV52117
ID AAV52217
ID AAV52
AC AAV52
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                                                                                                                                                                                   Query Match
Best Local Sim:
Matches 257;
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Best Local Similarity
Matches 213; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated cerebellum and embryo specific polypeptide develop products for treating e.g. coronary restenosis, infarction, heart disease and artery or venous thrombosi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CESP; cerebellum and embryo specific protein; myocardial infarction; arrhythmia; heart disea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV52117;
                                                                                                                                                                                                                                                                                   Sequence 356 BP; 66 A; 106 C; 113 G; 67 T; 4 other;
                                                                                                                                                                                                                                                                                                                              The sequence is that of an EST clone related to the cerebellum embryo specific protein (CESP) gene.
                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 56-57; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1998-377366/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-DEC-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        atherosclerosis; expressed sequence tag; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens CESP gene related EST clone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-NOV-1998
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                                           651
                                                                                                                                        591
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                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATCTGGTTGTGACTCTAAGCTCAGTGCTCTCTCCACTACCCCACACCAGCCTTGGTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGCTCAGAGACTGCAAGCTGCTTGCCCAAGTCACACAGCTAGTGAAGACCAGAGCAGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCTCTCAGCACAGCCTGGGGAGGGGGTCATTGTTCTCCTCGTCCATCAGGGATCTCAGA
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                                                                                                                      TGCATCATCGACGAGGACTGTGGGGCCCAGCATGTACTGCCAGTTTGCCAGCTTCCAGTAC
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TGCATCATCGACGAGGACTGTGGGCCCAGCATGTACTGCCAGTTTGCCAGCTTCCAGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Soppet DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8.2%;
ilarity 100.0%;
Conservative
                                                                                                                                                                                         Conservative
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Pred. No. 3.7e-73;
0; Mismatches 0;
                                                                                                                                                                                      Score 207; DB 19;
Pred. No. 8.3e-71;
0; Mismatches 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                               or venous thrombosis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            restenosis;
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RESULT 42
AAV52120
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Best Local S
Matches 191
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          02-JUL-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9827932-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens CESP gene related
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV52120 standard; cDNA; 302
                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1998-377366/32.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-DEC-1997;
                                                                                                                                                                                                                                                     Sequence 302 BP; 97
                                                                                                                                                                                                                                                                                The sequence is that of an EST clone related to the cerebellum embryo specific protein (CESP) gene.
                                                                                                                                                                                                                                                                                                                            Disclosure; Page 58; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                      New isolated cerebellum and embryo specific polypeptide - used to develop products for treating e.g. coronary restenosis, myocardial infarction, heart disease and artery or venous thrombosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HUMA-) HUMAN GENOME SCI INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              771
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                                                                                                                                                                 358 TGGAAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACTGAACCTGGCAA 417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                    172
                                                                                                           418 ACTTACCTCCCAGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAATACCA 477
                                                                                                                                          112 TGGAAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAA
                                                                                                                                                                                             tch 7.4%; Score 191; DB 19; al Similarity 100.0%; Pred. No. 1.4e-64; 191; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GACCAGCTGTGTGTCTGGGGTCACTGCACCAAAATGGCCCACCAGGGGCAGCAATGGGACC
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CAGAGACAGTT
                                                       TCCATGTGCACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTT
                              TCCATGTGCACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                          Soppet DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                        A; 77 C; 76 G; 50 T; 2 other;
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                                                                                                                                                                                                                             DB 19; Length 302;
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RESULT 43
AAQ60267
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                                                                                                                                                                     Matches 178;
                                                                                                                                                                                   Query Match
Best Local :
                                                                                                                                                                                                                                                   The Expressed Sequence Tag was isolated from a human brain cDNA library as part of a large set of ESTs which can be used as markers for human genes transcribed in vivo. They can be used to facilitate tagging of most human genes, for mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for prepn. of antisense sequences, probes and constructs. EST02264 has a "poor" coding probability as evaluated using the coding-region prediction program CRM. See also AAQ59041-Q61440. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                           Enriched oligonucleotides and corresp. sequences - used markers for human genes transcribed in-vivo, facilitate of most human genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ60267;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gene transcription product; genetic markers; tagging; in vivo transcription; mapping; locations; chromosomes; chromosomal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ60267 standard;
                                                                                                                                                                                                                            Sequence 386 BP; 85 A; 108 C; 95 G; 97 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                  Example 4; Page 307-308; 500pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Adams MD,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-FEB-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19-AUG-1993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9316178-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human brain Expressed Sequence Tag EST02264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (USSH ) US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-MAR-1994
                                                                                  1895
                            1955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    292
 156
                                                      96
                                                                                                               36
                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGAGACAGTT 302
                                                                             CAGCTAGTGAAGACCAGAGCAGTTTCATCTGGTTGTGACTCTAAGCTCAGTGCTCTCTCC 1954
                           астассссасассаностивотоссассальнаетостссссальнаесваеманае 2012
                                                                                                                                       CTCCTCGTCCATCAGGGATCTCAGAGGCTCAGAGACTGCAAGCTGCTTGCCCAAGTCACA 1894
CAGCTAGTGAAGACCAGAGCAGTTTCATCTGGTTGTGACTCTAAGCTCAGTGCTCTCTCC
                                                                                                             CTCCTCGTCCATCAGGGATCTCAGAGGCTCAGAGACTGCAAGCTGCTTGCCCAAGTCACA 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Moreno RF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEPT HEALTH & HUMAN SERVICE
                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (updated)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92US-0837195.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      93WO-US01294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                         100.0%; Freu. ...
0; Mismatches
                                                                                                                                                                                                  6.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Venter CJ;
                                                                                                                                                                                     Score 178;
Pred. No.
                                                                                                                                                                                   1.6e-59;
                                                                                                                                                                                                  DB 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              facilitate tagging
                                                                                                                                                                                                  Length 386;
                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    in vivo;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25
                                                                                                                                                                         0
                                                                                                                                                                          Gaps
      213
                                                              155
                                                                                                                                                                          0
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RESULT 44
AAV38808
ID AAV38
XX

AAV38808 standard; cDNA; 480 BP

AAV38808;

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AAQ60722/c
ID AAQ607
XX
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                                                 RESULT
                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                            The sequence is that of a cDNA clone related to extensive portions of the coding region of the cerebellum and embryo specific protein (CESP) gene. CESP is involved in: (i) the regulation of collateral coirculation (particularly in the heart), coronary artery restensis following a revascularisation procedure, apoptosis in myocytes; (ii) the complete of the regulation of circulating blood volume, vascular tone, blood pressure and cardiac output, diuresis, natriuresis; (iii) facilitation of transudation of plasma water to the interstitium, and (iv) inhibition of the release cor action of hormones such as aldosterone, angiotensin II, endothelins, renin and vasopressin. The products can be used in the diagnosis and creatment of CESP related disorders, e.g. coronary restensis following coronary revascularisation, coronary artery thrombus or occlusion, myocardial infarction, atrial and/or ventricular arrhythmias, heart collock, hereditary medial necrosis of small coronary atheres. CC cardiomyopathy, arrhythmogenic right ventricular dysplasia, atherocci coronary arrhythmias, ventricular dysplasia, athero-
                                                                                                                                                                                                                                                                                                  Matches 169;
                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CESP; cerebellum and embryo specific protein; restenosis; myocardial infarction; arrhythmia; heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated cerebellum and embryo specific polypeptide - used to develop products for treating e.g. coronary restenosis, myocardial infarction, heart disease and artery or venous thrombosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO9827932-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8661-AON-60
                                                                                                                                                                                                                                                                                                                                                                Sequence 480 BP; 124 A; 107 C; 111 G; 111 T; 27 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 53-54; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HUMA-) HUMAN GENOME SCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1998-377366/32.
                                                                                                   184
                                                                                                                                   473
                                                                                                                                                                   124
                                                                                                                                                                                                  413
                                                                                                                                                                                                                                                                  353
                                                                                                                                                                                                                                  64
                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                      GGCAAACTTACCTCCCAGCTATCACAATGAGACCAACAGACACGGAAGGTTGGAAATAA
                                                                                                                                                                                                 GGCAAACTTACCTCCCAGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAA
                                                                                                                                                                                                                                    CGCGGTGGAAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCT
                                                                                                                                                                                                                                                                    CGCGGTGGAAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCT 412
                                                                                                                                 TACCATCCATGTGCACCGAGAAATTCACAAGATAACCAACAACCAGACT 521
                                                                                                                                                                                                                                                                                                  6.5%;
ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CESP gene related clone HHFDB95R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96US-0033870.
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                                                                                                                                                                                                                                                                                                  Score 169; DB ly;
; Pred. No. 4.8e-56;
                                                                                                                                                                                                                                                                                                                                    Length 480;
                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                      472
                                                                                                                                                                                                                                    123
                                                                                                                                                                      183
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AAQ60722 standard; cDNA; 337

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RESULT 46
AAV52119
ID AAV52
XX
AC AAV52
XZ
XZ
XZ
AC AAV52
XZ
XZ
DT 09-NC
XX
DB Homo
XX
KW CESP;
                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Simi
Matches 157;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Enriched oligonucleotides and corresp. sequences - used as markers for human genes transcribed in-vivo, facilitate tagging of most human genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gene transcription product; genetic markers; tagging; in vivo; transcription; mapping; locations; chromosomes; chromosomal; s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-MAR-2003
16-MAR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The Expressed Sequence Tag was isolated from a human brain cDNA library as part of a large set of ESTs which can be used as markers for human genes transcribed in vivo. They can be used to facilitate tagging of most human genes, for mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for prepn. of antisense sequences, probes and constructs. EST00846 has a "poor" coding probability as evaluated using the coding-region prediction program CRM. See also AAQ59041-Q61440. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human brain Expressed Sequence Tag EST00846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1993-272882/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-FEB-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-AUG-1993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W09316178-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAQ60722;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 337 BP; 91 A; 69 C; 78 G; 92 T; 7 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 4; Page 379; 500pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Adams MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (USSH ) US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-FEB-1993;
 CESP; cerebellum and embryo specific protein;
                            Homo sapiens CESP gene related EST clone
                                                            09-NOV-1998
                                                                                          AAV52119
                                                                                                                         AAV52119 standard; cDNA; 298
                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                1986
                                                                                                                                                                                                                                                                                              1926
                                                                                                                                                                                                                                                                                                                                                      1866 GAGACTGCAAGCTGCTTGCCCAAGTCACACAGCTAGTGAAGACCAGAGCAGTTTCATCTG
                                                                                                                                                                                                                                                                                                                          337
                                                                                                                                                                                                    217
                                                                                                                                                                                                                                                               277
                                                                                                                                                                                                                                                                                   GTTGTGACTCTAAGCTCAGTGCTCTCTCCACTACCCCACACCAGCCTTGGTGCCACCAAA 1985
                                                                                                                                                                                                                              AGTGCTCCCCAAAAGGAAGGAGAATGGGATTTTTCTT 2022
                                                                                                                                                                                                                                                                                                                            GAGACTGCAAGCTGCCTAAGTCACACAGCTAGTGAAGACCAGAGCAGTTTCATCTG
                                                                                                                                                                                                    AGTGCTCCCCAAAAGGAAGGAGAATGGGATTTTCTT
                                                                                                                                                                                                                                                               GTTGTGACTCTAAGCTCAGTGCTCTCTCCACTACCCCACACCGCCTTGGTGCCACCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Moreno RF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEPT HEALTH & HUMAN SERVICE
                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (updated)
(first entry)
                                                            (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            92US-0837195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93WO-US01294
                                                                                                                                                                                                                                                                                                                                                                                                    6.1%;
                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Venter CJ
                                                                                                                                                                                                                                                                                                                                                                                     Score 157; DB 14;
; Pred. No. 2.4e-51;
0; Mismatches 0;
                                                                                                                         ВР
      restenosis;
                                                                                                                                                                                                                                                                                                                                                                                                                     Length 337;
                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for mapping
                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     88.
                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                             278
                                                                                                                                                                                                                                                                                                                                                           1925
                                                                                                                                                                                                                                                                     218
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RESULT 47
AAV52127
ID AAV52
XX AAV52
XX AAV52
XX O9-NC
XX CESP,
KW myoca
KW myoca
KW ather
XX MO987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SON COCKER PRINTERS OF A PRINT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   myocardial infarction; arrhythmia; heart disease; atherosclerosis; expressed sequence tag; ds.
                                                                                                                                                                                                                                                                      CESP; cerebellum and embryo specific protein; res myocardial infarction; arrhythmia; heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The sequence is that of an EST clone related to the cerebellum embryo specific protein (CESP) gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated cerebellum and embryo specific polypeptide - used to develop products for treating e.g. coronary restenosis, myocardial infarction, heart disease and artery or venous thrombosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-JUL-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  W09827932-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo
                                                                                                                                                                                                                                            atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                       09-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 298 BP; 55 A; 68 C; 98 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 57; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1998-377366/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-DEC-1997;
                            18-DEC-1997;
                                                                                02-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAV52127;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAV52127 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                 WO9827932-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          205;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AATAGCTAATTTATTTCCCCAGGTGTGTGTGTTTAGGCGTGGGCTGACCAGGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACATCTTCTTCCCAGTAAGTTTCCCCCTCTGGCTTGACAGCATGAGGTGTTGTGCATTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CACTGCTGGGAGGGGAAGAGTTTAGATCTGGACCAGGCTGTGGGTAGATGTGCAATAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rcaecrececaecrerrereaee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCAGCTCCCCCAGGCTGTTCTCCAGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AATAGCTAATTTATTTCCCCAGGTGTGTGCTTTAGGCGTGGGCTGACCAGGCTTCTTNCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Soppet DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                   CESP gene related EST clone.
                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   96US-0033870.
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                            97WO-US23518
                                                                                                                                                                                                                                         expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                            sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 155; DB 19;
Pred. No. 1.4e-50;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  75 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 other;
                                                                                                                                                                                                                                                                                               restenosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
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RESULT 48
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Best Local Similarity 100.0%;
Matches 153; Conservative
                                           New isolated cerebellum and embryo specific polypeptide -develop products for treating e.g. coronary restenosis, minfarction, heart disease and artery or venous thrombosis
                                                                                                                                                                                                                                                                                                   CESP; cerebellum and embryo specific protein; restenosis; myocardial infarction; arrhythmia; heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 344 BP; 60 A; 106 C; 108 G; 68 T; 2 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The sequence is that of an EST clone related to the cerebellum embryo specific protein (CESP) gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 60-61; 77pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated cerebellum and embryo specific polypeptide - used to develop products for treating e.g. coronary restenosis, myocardial infarction, heart disease and artery or venous thrombosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ruben SM,
                                                                                            WPI; 1998-377366/32.
                                                                                                                    Ruben SM,
                                                                                                                                                                   20-DEC-1996;
                                                                                                                                                                                           18-DEC-1997;
                                                                                                                                                                                                                  02-JUL-1998.
                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                         atherosclerosis;
                                                                                                                                                                                                                                                                                                                                      Homo sapiens CESP gene related EST clone.
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                                                                                                                                                                                                                                                                                                                                                                                       AAV52126;
                                                                                                                                                                                                                                                                                                                                                                                                              AAV52126 standard; cDNA;
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                    Disclosure; Page 60; 77pp; English.
                                                                                                                                                                                                                                          WO9827932-A2.
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                                                                                                                                            (HUMA-) HUMAN GENOME SCI INC
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                                                                                                                  Soppet DR;
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Pred. No.
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                                                                                                                                                                                                                                                                                         disease;
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The sequence is that of an

EST clone related to the cerebellum

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Best Local S
Matches 201
The sequence is that of a cDNA clone related to extensive portions of the coding region of the cerebellum and embryo specific protein (CESP) gene. CESP is involved in: (i) the regulation of collateral circulation (particularly in the heart), coronary artery restenosis following a revascularisation procedure, apoptosis in myocytes; (ii) the modulation of myocyte development in the developing heart; (ii) regulation of circulating blood volume, vascular tone, blood pressure and cardiac output, diuresis, natriuresis; (iii) facilitation of transudation of plasma water to the interstitium, and (iv) inhibition of the release or action of hormones such as aldosterone, angiotensin II, endothelins, renin and vasopressin. The products can be used in the diagnosis and treatment of CESP related disorders, e.g. coronary restenosis following
                                                                                                                                                                                                                      New isolated cerebellum and embryo specific polypeptide - used to develop products for treating e.g. coronary restenosis, myocardial infarction, heart disease and artery or venous thrombosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CESP; cerebellum and embryo specific protein; restenosis; myocardial infarction; arrhythmia; heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
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                                                                                                                                                                                          Disclosure; Page 53; 77pp; English.
                                                                                                                                                                                                                                                                                   WPI; 1998-377366/32.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         atherosclerosis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAV38807
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Pred. No. 5
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Best Local Similarity
                                                 This invention describes an inhibitory protein of the wnt signalling pathway (which comprises secreted glycoproteins and their associated receptors). The products of the invention are useful as therapeutic and diagnostic agents, e.g. to treat cancer (e.g. carcinoma of breast and colon, or melanoma) and for studying processes associated with wnt signalling (cell proliferation and differentiation). Primers derived from the nucleic acid of the invention are used to detect the expression of the gene. AAX56827-X26833 are sequences used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   coronary revascularisation, coronary artery thrombus or occlumyccardial infarction, atrial and/or ventricular arrhythmias, block, hereditary medial necrosis of small coronary arteries, cardiomyopathy, arrhythmogenic right ventricular dysplasia, a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 384 BP; 73 A; 87 C; 106 G; 106 T; 12 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Signal pathway; wnt;
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                                                                                                                                                                                                                                                                                                                                                    Claim 4a; Fig 2; 39pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                               Protein that inhibits wnt signalling
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1999-303017/25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            y; diagnosis; treatment;
cell proliferation; dif
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Best Local Similarity

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Score Pred.

144; No. <u>ი</u> 64 T;

2.6e-46; DB 20; Length 0 other;

432;

Query Match

Sequence 432 BP;

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-	285	AGGAGG	CGCAGG	AGCTACCC	GGCTCTC	CAAGCCCGGCCC	TCCAGT	CGACGGCGACCTCCAGCTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAGG 285	226 (γQ
•	151	CCGCTC	200000	ACGGCCCC	GGTCCCC	GCTGGCGGCGGC	CCTGCT	92 GGCCACCCTGCTGTGCTGCTGCTGGCGGCGGCGGCGCCCCACGGCCCCCGCGCCCCGCTC 151	92	Db
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
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Plate: LLCM2365 row: n column:
High quality sequence stop: 686.
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Tissue Procurement: ATCC
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Site 2: ECORI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library. "

1 others
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/tissue_type="ductal carcinoma, cell line"
/lab_host="HHIOB (phage-resistant)"
/clone_lib="NIH_MGC_110"
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/db_xref="taxon:9606"
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NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, I
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bloscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2365 row: k column: 09
High quality sequence stop: 698.
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AGENCOURT 8034028 NIH_MGC_110
5', mRNA sequence.
BQ690888
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Tissue Procurement: ATCC
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/tissue_type="ductal carcinoma, cell line"
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/clone lib="NIH MGC 110"
/clone lib="NIH MGC 110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: ECRI; CDNA made by oligo-dT priming
Directionally cloned into EccRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
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Eutheria; Primates; Catarrhini; Hominidae; Homo.
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BP 191 91006 EVRY cedex - France
Email: secref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r For
more information about this cluster, see
http://www.genoscope.cns.fr/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Cranista; Vertebrata; Mammalia; Euthéria; Primates; Catarrhini; Hominidae; 1 (bases 1 to 977)
Li,W.B., Gruber,C., Jessee,J. and Polayes,D. Full-length cDNA libraries and normalization Unpublished
On Feb 13, 2001 this sequence version replaced gi:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cgi-bin/cluster.cgi?seq=CSODF016CE06QP1&cluster=6027.r. Contact Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
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Location/Qualifiers

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                                       CACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAGAGAGACA
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/dev stage="fetal"
/clone_lib="Homo sapiens FETAL BRAIN"
/clone_lib="Homo sapiens FETAL BRAIN"
/note="Organ; brain; Vector; pCMVSPORT_6; 1st strand cDNA
/note="Torgan; brain; Vector; pCMVSPORT_6; 1st strand cDNA
enriched, double-strand cDNA was digested with Not I and
cloned into the Not I and ECCRV sites of the pCMVSPORT 6
vector. Library was not normalized."

294 c 296 g 165 t
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Bap 191 91006 EVRY cedex - France
Bap 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSODPF008DG06QP1&cluster=6027.r. Conta
Feng Liang Email: fliang@lifetech.com URL:
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
Faraday Avenue Genoscope sequence ID: CSODF008DG06QP1.
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Li,W.B., Gruber,C., Jessee,J. and Polayes,D. Full-length cDNA libraries and normalization
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BX418715 Homo sapiens
CSODF008YN12 5-PRIME,
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/tissue_type="FETAL BRAIN"
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/clone_argan; brain; Vector: pcMVSPORT_6; lst strand cDNA
/note="Organ; brain; Vector: pcMVSPORT_6; lst strand cDNA
was primed with a NotI-oligo(dT) primer. Five prime end
enriched, double-strand cDNA was digested with Not I and
                                                                                                                                                               /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DF008YN12"
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                                     CCAGTGGCCTCCTGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCT
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BASE COUNT	cloned into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library was not normalized." 266 a 347 c 379 g 195 t 14 others
Query Match Best Local Matches 100	tch 29.4%; Score 760; DB 13; Length 1201; al Similarity 99.8%; Pred. No. 0; 1000; Conservative 0; Mismatches 0; Indels 2; Gaps 2;
VQ	55 CGCAGCCCGGCCGGCCGGCCGGCGGAGCGAGCCAGATCCAGTCCCGCCCG
Db	67 CGCAGCCCGGCGGCCTCCCGGCGGGAGCGAGCCAGATCCAGTCCGGCCCGCAGCGCAACTC 126
Qy 1	115 GGTCCAGTCGGGGCGGCGGCGGGGGGCAGAGCGGAGATGCAGCGGCTTGGGGGCCACCC 174
Db 1	127 GGTCCAGTCGGGGCGGCGGCGGCGCGGCGCGCGAGAGCGAGATGCAGCGGCTTGGGGGCCACCC 186
0γ 1	175 TGCTGTGCCTGCTGGCGGCGGCGGCGCCCACGGCCCCCGCGCCCCGCTCCGACGGCGA 234
Db 1	187 TGCTGTGCTGCTGCTGGCGGCGGCGGCCCACGGCCCCGCGCCCCGCGCGCACGGCGA
Qy 2	235 CCTCGGCTCCAGTCAAGCCCGGCCCGGCTCTCAGCTACCCGCAGGAGGAAGGCCACCCTCA 294
Db 2	247 CCTCGGCTCCAGTCAAGCCCGGCCCGGCTCTCAGCTACCCGCA-GAGGAGGCCACCCTCA 305
Оу 2	295 ATGAGATGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCACCACAATTGCGCAGCG 354
Db 3	306 ATGAGATGTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCACG
0у з	355 CGGTGGAAGAGATGGAGGCAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGG 414
Db 3	365 CGGTGGAAGAGATGGAGGAGAAGAAGCTGCTGCTAAAGCATCATCAGAAGTGAACCTGG 424
Qy 4	415 CAAACTTACCTCCCAGCTATCACAATGAGACCAACACGACACGAAGGTTGGAAATAATA 474
Db 4	425 CAAACTTACCTCCAGCTATCACAATGAGACCCAACAGACACGAAGGTTGGAAATAATA 484

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REFERENCE
AUTHORS
TITLE
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                                                                                                                                                                                                          758;
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http://image.llnl.gov
plate: LLAM13571 row: f column: 17
High quality sequence stop: 708.
Location/Qualifiers
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BO879213

936 bp mRNA linear AGENCOWRT 8229317 Lupski doreal root ganglion Homo clone IMAGE:6183568 5', mRNA sequence.

BO879213

BO879213
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Tissue Procurement: Dr. James R. Lupski
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLN
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information
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NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates;
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                                                                                                                                                                                                                                                                                     213
                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                             /Glone lib="Lupski dorsal root ganglion"
/note="Vector: pcMV-SPCRT6 (Life Technologies); Site_1:
NotI, Site_2: SalI; cDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
5'-TCGACCCACGCGTCCG-3' and
5'-GACTAGTCTGAGCCGACGCGCCCCT(15)-3'. Size selected >
1 kb for average insert length 1.7 kb. This is a primary
1 library, non-amplified. Library constructed by Life
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor college of Medicine) and is available through Life
                                                                                                                                                                                                                                                                                    Technologies."
249 c 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                /tissue_type="dorsal root ganglia"
/dev_stage="adult, 36 yr"
/lab_host="DH10B"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           clone="IMAGE:6183568"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
                                                                                                                                                                                                                                                             Unpublished
                                                                                                                                                                                                                                               Contact: Robert Strausberg, Ph.D.
                                                               quality sequence start: 19 quality sequence stop: 678. Location/Qualifiers
      /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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110 Homo F
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 949)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov plate: LLCM2314 row: h column: 23
                                                                                         cDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
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                                                    TTTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAAAAATGCA
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/clone lib="NIH_MGC_110"
/note="Forgan: pancreas; Vector: pOTB7; Site 1: XhoI;
Site 2: ECORI; CDNA made by oligo-dT priming.
Directionally cloned into EcoRI/KhoI sites using the following 5' adaptor: GGCACCAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC_Library."

Note: this is a NIH_MGC_Library."
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/tissue_type="ductal carcinoma, cell line"
/lab_host="DH10B_(phage_resistant)"
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Tissue Procurement: ATCC
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CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLN
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2317 row: g column: 04
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National Institutes of Health, Mammalian Gene Collections of the collection of the collec
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High quality sequence stop: 644.
Location/Qualifiers
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GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCCGATGAGTATGAAGTTGGCAGC 1088
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/mol_type="mRNA"
/db_xref="taxon:9606"
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1 (bases 1 to 870)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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AGENCOURT 8063999 NIH MGC 110
5', mRNA Sequence.
EQ689208
                                                                          found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
plate: LLCM2364 row: column: 04
High quality sequence stop: 691.
Location/Qualifiers
                                                                                                                                                                         Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                Contact: Robert Strausberg, Ph.D.
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
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/clone="IMAGE:6207819"
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/clone_lib="NIH_MGC_110"
/note="Torgan: pancreas", vector: pOTB7; Site_1: XhoI;
Site_2: ECGRI; cDNA made by oligo-dT priming.
Directionally cloned into EcGRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Berald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

Note: this is a NIH_MGC Library."
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CCCCTGCCCGTGGAGGCGAGCCTTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTCATC TGCCAGCCCCACAGCCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGGACCGATGCCCTTGTGCCAGTGGCCTCCTC TTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACCTGGCAAAAAATGCAA GCTTTGATAATTGTTTGAGGGGAGGAGATGGAAACAATGTGGAGTCTCCCTCTGATTGGT GCTTTGATAATTGTTTGAGGGGAGAGGAGGAGAACAATGTGGAGTCTCCCTCTGATTGGT TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG CACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGGTTAAACTGCAGGAGCAGTTTTGCCACCCC GGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCCAGGCTGTTCTCCAGGCTT GGCTTGACAGCATGAGGTGTTGTGCATTTTGTTCAGCTCCCCCAGGCTGTTCTCCCAGGCTT 1388 CTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCTCCCAGTAAGTTTCCCCCTCT GCGCTGAGGGAGCCTGCGGCTGCCGCCGCTGCACTGCTGGGAGGGGGAAGAGATTTAGATC GCGCTGGGGGAGCCTGCGGCTGCCGCTGCACTGCTGGGAGGGGAAGAGATTTAGATC GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC CCCCTGCCCGTGGAGGGGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTCATC CTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTTTCCCCTCT Score 734; DB Pred. No. 0; 0; Mismatches В 13; 1: Length Indels 0 1568 1508 1448 1328 1268 1208 1148 1088 1028 968 60 908 1628 660 600 540 480 420 360 300 240 180 120 720 0

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1 (bases 1 to 885)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Plate: LLAM13215 row: c column:
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Tissue Procurement: ATCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCACCCCTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTT
                                                                                   CCCCTCTGGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCCAGGCTGTTCTC
                                                                                                                                                                                                              GTGTGTGTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTTT
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Location/Qualifiers
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/mol type="mRNA"
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/db xref="taxon:9606"
/db xref="taxon:9606"
/clone="NMAGB:6016827"
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/tissue_type="epithelioid carcinoma"
/tab host="ND10B (phage-resistant)"
/clone lib="NHH MGC_70"
/clone lib="NHH MGC_70"
/note="Organ: pancreas; Vector: pCMV-SPORT6; Site_1: NotI;
/note="Organ: pancreas; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: Sall; Cloned unidirectionally. Primer: Oligo dT.
Site_2: Sall; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.1 kb. Library constructed by Life
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84 a 212 c 251 g 234 t 4 others
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. James R. Lupski
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
http://image.llnl.gov
Dlate: LLAM13596 row: i column: 05
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AGENCOURT 8304969 Lupski sympathetic trunk Homo
IMAGE:6193228 5', mRNA sequence.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 931)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 quality sequence stop: 642.
                                                                                          /clone lib="Lupski sympathetic trunk"
/note="Vector: pCMV-SPORT6 (life Technologies); Si
NotI; Site 2: SalI; cDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
5'-TCGACCCACGCGTCCG-3' and
5'-GACTAGTTCTAGATCGCGAGCGGCCCCT(15)-3' Size selected:
1 kb for average insert length 1.9 kb. This is a primary
1 lbrary, non-amplified. Library constructed by Life
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylo
                                                                                                                                                                                                        /tissue_type="sympathetic
/dev_stage="adult, 16 yr"
/lab_host="DH10B"
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/db_xref="taxon:9606"
/clone="IMAGE:6193228"
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sapiens cDNA clone
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Homo sapiens (human)
Homo sapiens
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; I
Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; I
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 883)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collect
                                                                           AGENCOURT_8061767 NIH_MGC
5', mRNA sequence.
B0897953
B0897953.1 GI:22289967
EST.
                                                                                                                                   BQ897953
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
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                                                                                                                                                                                         GECTGTGCTGTGCCTTCCAGAGAGGCCTGCTGTTCCCTGTGTGCACACCCCTGCCCG
                                                                                                                                                                                                           GGCTGTGCTGTGCCTTCCAGAGAGGCCTGCTGTTCCCTGTGTGCACACCCCCTGCCCG
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                                                                                                                                                                                                                                                       AAATGGCCACCAGGGGCAGCAATGGGAACCATCTGTGACAACCAGAGGGACTGCCAGCCGG 801
                                                                                                                                                                                                                                                                               TCTGCACCCGGGACAGTGAGTGCTGTGGAGACCAGCTGTGTGTCTGGGGTCACTGCACCA
                                                                                                                                                                                                                                                                                              CTGCTGCTAAAGCATCATCAGAAGTGAACCTGGCAAACTTACCTCCCAGCTATCACAATG
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                                                                                                                         clone IMAGE: 6208520
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Best Local
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849 CCCCTGCCGTGGAGGGCGAGCTTTGCCATGACCCGGCCAGCCGGCTTCTGGACCTCATC
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Contact: Robert Strausberg, I
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC
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CACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTTGCCACCCC
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/note="forgan: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5: adaptor: GGCAGCAGG(). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."

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/db xref="taxon:9606"
/clone="IMAGE:6208520"
/tissue_type="ductal carcinoma, cell line"
/lab_host="DH10B (phage_resistant)"
/clone_lib="NHH_MGC_110"
/clone_lib="NHH_MGC_110"
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mol_type="mRNA"
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http://im Plate: LL	909 ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC 968	Qy
found thr	1 CCCCTGCCCGTGGAGGCGAGCTTTGCCATGACCCCGCCAGCCCGCTTCTGGACCTCATC ov	Dβ
cDNA Lib DNA Sequ Clone di	CCCCTGCCCGTGGAGGGCAACGTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTCATC	γQ
COMMENT Contact: Email: cg Tissue pr cDNA Lib	Query Match 27.6%; Score 715; DB 13; Length 1065; Best Local Similarity 99.9%; Pred. No. 0; Matches 765; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	Quer Best Matcl
RS NIH Nat Nat Unp	DUNT 2:	BASE CO
3	Directionally cloned into EcoRI/Xhol sites using the following 5' adaptor: GCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH MGC Library."	
ACCESSION BQ889489.	/clone lib="NIH MGC 110" /note="Oygan: pancreas; Vector: pOTB7; Site_1: XhoI; /note_2: EcoRI; cDNA made by oligo-dT priming.	
RESULT 13 BQ889489 LOCUS BQ889489 DEFINITION AGENCOURT	<pre>/db xref="taxon:9606" /clone="IMAGE:952240" /tissue_type="ductal carcinoma, cell line" /lab_host="DH10B (phage-resistant)"</pre>	
Ì	source 11065 /organism="Homo sapiens" /mo] type="mrnna"	SO
707	Dog Too	FEATURES
1569	Plate: LICM2139 row: p column: 03	
Qy 1509 GCTTTGAI Db 661 GCTTTGAI	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.B. Consortium/LLNL at:	
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bioscience Corporation	
1449	Tissue Progrement: ATCC CDNA Library Preparation: Rubin Laboratory	
	T Contact: Robert Strausberg, Ph.D. Email: cgabbs-r@mail.nih.gov	COMMENT
Qy 1389 CACAGTCT	Nat	AUTHORS
Db 481 GGCTTGAC	Mammalia; Eutheria; Primates; 1 (bases 1 to 1065)	REFEREN
Qy 1329 GGCTTGAC	Hom	ORGANISM
Db 421 CTTTAGGC	EST. Homo sapiens	KEYWORDS SOURCE
Qy 1269 CTTTAGGC	ON BU162929 BU162929.	ACCESSION VERSION
QY 1209 TGGACCAG	BU162929 1065 bp mRNA linear EST 04-SEP-2002 TION AGENCOURT 6910849 NIH MGC 110 Homo sapiens cDNA clone IMAGE:5952242 5', mRNA sequence.	LOCUS
Db 301 GCGCTGAG	12	RESULT 12
Qy 1149 GCGCTGGG	721 TTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACC /66	Db
Db 241 TTCATGGA	TTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAAACATCAACC	Ϋ́Ο
Qy 1089 TTCATGGA	661 GCTTTGATAATTGTTTGAGGGGAGGAGATGGAAACAATGTGGAGTCTCCCCTCTGATTGGT 720	dd
Db 181 GACCAAGA	1509 GCTTTGATAATTGTTTGAGGGGAAGGGAAACAATGTGGAATCTCCCCTCTGATTGGT 1568	γQ
1028	601 TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG 660	מם לג
Qy 969 TGCCAGCC)
Db 61 ACCTGGGA		ļ

RESULT 13 BQ889489 LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM REFERENCE AUTHORS TITLE JOURNAL COMMENT	Qу 1 Db	Qy 1	Qy 1 Db	D 04	Qy 13	Qy 12 Дъ 4	Qγ 12 Db 3	Qy 11 Дb 3	Qy 10 рь 2	Οχ 10 10	Оу 9 Db 1	מם
BQ889489 BQ889489 AGENCOURT_8061866 NIH_MGC_110 Homo sapiens cDNA clone IMAGE:6208646 5', mcNA sequence. BQ889489 BQ89489.1 GI:22281503 BST. Homo sapiens (human) Homo sapiens (chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 892) NIH-MGC thtp://mgc.nci.nih.gov/. National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tisque Procurement: ATCC cDNA Library Preparation: Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLCM2366 row: k column: 15	569 TITGGGGAAATGTGGAGAAGAGTCCCCTCCTTTCCAAACATCAACC 1614	GAAACAATGTGGAGTCTCCC	GACAGCCGTTTGTTCTACATG 150	389 CACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTTGCCACCCC 1448 	29 GGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCCA	69 CTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCT	09 TGGACCAGGCTGTGGGTAGATGTGCAATAGAAATAGCTAATTTATTT	49 GCGCT	89 TTCATGGAGGAGGTGCGCCAGGAGCTGGAGAGCTTGGAGAGGAGCCTGACTGA	29 GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC	69 TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT 102 21 TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT 180	CGATGCCCTTGTGCCAGTGGCCTCCTC 120

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//clone_lib="NIH_MGC_110"
//note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
prectionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCAGGG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

Note: this is a NIH_MGC Library."
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/lab_host="DH10B (phage-resistant)"
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/db_xref="taxon:9606"
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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5', mRNA sequence.
BOKACTOO
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Tissue Procurement: ATCC
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/tlosue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/tlosue_type="ductal carcinoma, cell line"
/tlosue_type="ductal carcinoma, cell line"
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/clone_lib="NIH_MGC_110"
/note="Torgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/thote="Torgan: pot line" po
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/db_xref="taxon:9606"
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AGENCOURT 8064243 NIH MGC_110
5', mRNA sequence
BQ890463
BQ890463 GI:22282477
EST
                                                                                                                       cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2364 row: m column: 17
High quality sequence stop: 677.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                              Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 878)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                       Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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/mol_type="mRNA"
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/clone_lib="NHH_MGC_110"
'note="Organ:
 pancreas; Vector: pOTB7; Site_1: XhoI;
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   BX391733 Homo sapiens PLACENTA COT 25-NORWALIZED Clone CSODIO36YN11 3-PRIME, mRNA sequence.

EX391733
                                                                                                                    TTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAA 757
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	Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5: adaptor: GGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH MGC Library."
fatch xcal s	imilarity ; Conserva
849	CCCCTGCCCGTGGAGGGGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTCATC 908
909	ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTTGTGCCAGTGGCCTCCTC 968
969 121	TGCCAGCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT 1028
1029	GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 1088
1089	TTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGGAGCCTGACTGA
1149	GCGCTGGGGAAGCCTGCGGCTGCCGCCGCTGCACTGCTGGGAGGGGAAGAGATTTTAGATC 1208
1209	TGGACCAGGCTGTGGGTAGATGTGCAATAGAAATAGCTAATTTATTT
1269 421	CTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTTTCCCCTCT 1328
1329 481	GGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCAGGCTGTTCTCCAGGCTT 1388
1389 541	CACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTTGCCACCCC 1448
1449	TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG 1508
1509	GCTTTGATAATTGTTTGAGGGGAGGAGATGGAAACAATGTGGAGTCTCCCTCTGATTGGT 1568
1569	TTTGGGGAAATGTGGAGAAGAGTGCCCTGCTTTGCAA 1605

Homo

EST 13-MAY-2003 no sapiens cDNA

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VERSION
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cgi-bin/cluster.cgi?seq=CSOBH1021ZG05 CS01959 1&cluster=6027.r.
Contact : Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600.
Faraday Avenue Genoscope sequence ID : CSOBAI021ZG05_CS01959_1.
Location/Qualifiers
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Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
Full-length cDNA libraries and normalization
Unpublished
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Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6027.r
more information about this cluster, see
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genoscope - Centre National de Sequencage
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/mol_type="mRNA"

/db xref="taxon:966"

/clone="CSODI036YN11"

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/note="Ist strand cDNA was primed with a NotI-oligo(dT)

/note="Ist strand cDNA was primed with a NotI-oligo(dT)

/note="Ist strand cDNA was primed with a NotI and EcoR V

/note="Ist strand cDNA was primed into the Not I and EcoR V

sites of the pCMVSPORT 6 vector. Library was normalized."

a 261 c 213 g 192 t 11 others
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743; Conser
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Tissue Procurement: ATCC
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BQ689483
BQ689483.1 GI:21814799
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              National Institutes of Health, Mammalian
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1 (bases 1 to 867)
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AGENCOURT_8343875 NIH_MGC_110
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
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                                                                                                                     Conservative
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/note="Torgan: pancreas", vector: pOTB7; Site_1: XhoI;
Site_2: ECORI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens'
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                           /clone="IMAGE:6248433"
/tissue_type="ductal_carcinoma, cel.
/tissue_type="ductal_carcinoma, cel.
/lab_host="PH10B_ghage-resistant)"
/clone_lib="NIH_MGC_110"
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BQ894810
BQ894810.1 GI:22286824
EST.
Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Dr. James R. Lupski
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; V
Mammalia; Eutheria; Primates; Catarrhini;
1 (bases 1 to 852)
NIH-MGC http://mgc.nci.nih.gov/.
                                                                                                                     Contact: Robert Strausberg, Ph.D.
                                                                                                                                     Unpublished
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/db_xref="taxon:9606"
/clone="iMAGE:6181825"
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/dev_stage="adult, 36 yr"
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100.0%;
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5'-GACTAGTTCTAGATCGCCAGCGGCCCCCT(15)-3'. Size selected 1 kb for average insert length 1.7 kb. This is a primary library, non-amplified. Library constructed by Life Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor College of Medicine) and is available through Life Technologies."

Technologies."
                                                                                                                                                                                                                                                                                                                                      /dev stage="adult, 36 yr"
/lab_host="DH10B"
/clone lib="Lupski dorsal root ganglion"
/note="Vector: pCMV-SPORT6 (Life Technologies); Si
/note="Vector: pCMV-SPORT6 (Life Technologies); Si
/note; Site 2: Sall; cDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
5'-TCGACCCACGCGTCCG-3' and
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Length
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cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

plate: LLCM2139 row: p column: 22

High quality sequence stop: 743.

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Contact: Robert Strausberg, Email: cgapbs-r@mail.nih.gov Tissue Procurement: ATCC
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AGENCOURT_6937229 NIH_MGC_110 Homo sapiens cDNA clone IMAGE:5952261
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NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health,
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                             GACCAAGATGGGGAGATCCTGCCGGGGAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 1088
                                                                                  TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT 1028
                                                                                                                                                ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC 968
                                                                                                                                                                                  CCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTCATC
                                                                                                                      ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC 120
                                                                                                                                                                                                                                                                                                                     204
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                                                                                                                                                                                                                                                                                                                  /note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI; Site 2: ECORI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCARGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH MGC Library."
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/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_110"
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mol_type="mRNA"
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lone="IMAGE:5952261"
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BQ897122
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1 (bases 1 to 906)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                     CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                    Plate: LLCM2319 row: e column: High quality sequence stop: 607.
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/clone="IMAGE:6085612"
/tissue type="ductal carcinoma, cel:
/lab host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_110"
                                                                                                            /organism="Homo sapiens'
/mol_type="mRNA"
/db_xref="taxon:9606"
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sapiens cDNA clone IMAGE:6082014
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cDNA Library Arrayed by: The I.M.A.G.E. Consortium: (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2309 row: o column: 07
High quality sequence stop: 649.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
1 (Dases 1 to 841)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
GCGCTGGGGAAGCCTGCGGCTGCGCCGCTGCACTGCTGGGAGAGAAGAGATTTAGATC
                                                                                                                                                  GACCAAGATGGGGAGATCCTGCTGCCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Rubin Laboratory

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)

DNA Sequencing by: Agencourt Bloscience Corporation

Clone distribution: MGC clone distribution information ca
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Plate: LLCM2362 row: n column: 02
High quality sequence stop: 692.
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sapiens
                              /tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/lab host="bH10B (phage-resistant)"
/clome_lib="NIH_MGC_110"
/clome_lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/ince="Organ: pancr
                                                                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6207169"
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5', mRNA sequence.
BQ686811
BQ686811.1 GT:21812127
                 1 (bases 1 to 915)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health,
                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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Email: cgapbs r@mail.nih.gov
Tissue Procurement. ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA Library Preparation: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Holoscience Corporation
DNA Sequencing by: Agencourt Holoscience Corporation
Clone distribution: MGC clone distribution information can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLCM2392 row: k column: 14
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/tlissue_type="ductal carcinoma, cell line"
/lab_host="PH10B (phage-resistant)"
/clone_lib="NH1 MGC_110"
/clone_lib="NH1 MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Site_1: Cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Supersoript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
83 a 223 c 273 g 236 t
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/mol_type="mRNA"
/db_xref="taxon:9606"
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National Institutes of Health, Mammalian
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Tissue Procurement: ATCC
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Location/Qualifiers
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: WGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
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BO687864 BO687864.1 GI:21813180
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NIH-MGC http://mgc.nci.nih.gov/...
National Institutes of Health, Mammalian Gene Collection (MGC)
CDNA Library Preparation: Rubin Laboratory (LLNL) CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bloscience Corporation Clone distribution: MGC clone distribution information can found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov plate: LLCM2394 row: o column: 20 High quality sequence stop: 650.
                                                                                                                         Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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/lab host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/site_2: EooRI; cDNA made by oligo-dT priming.
Site_2: EooRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5; adaptor: GGCAGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

81 a 222 c 267 g 227 t 1 others
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6250987"
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RESULT 26
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 893)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2319 row: n column: 03
High quality sequence stop: 644.
Location/Qualifiers
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EST.
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Tissue Procurement: ATCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (human)
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                                                                                                                                                                                                       ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC
                                                                                                              TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT
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                                                                                                                                                                                                                                                                                                                                                                            /tissue_type="ductal carcinoma, cell line"
/lab host="DH108 (phage_resistant)"
/clone_lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
79 a 225 c 269 g 220 t
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'clone="IMAGE:6085826"
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                                                                                                                                                                                                                      Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLN
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information
found through the I.M.A.G.E. Consortium/LLNL at:
http://imagg.llni.gov
plate: LLCM2397 row: a column: 23
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AGENCOURT 8171705 NIH_MGC_110
5', mRNA sequence.
BQ691090
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1 (bases 1 to 901)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                        quality sequence stop: 601.
/organism="Homo sapiens"
/mol type="mRNA"
/mol type="mRNA"
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/clone="IMAGE:6551806"
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/lab host="DH10B (phage-resistant)"
/clone_lib="NIH MGC_110"
/clone_lib="NIH MGC_110"
/clone_lib="NIH MGC_110"
/site_2: EcoRI; cDNA made by oligo-dT priming.
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Collection (MGC)

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Tissue Procurement: Miklos Palkovits, M.D
cDNA Library Preparation: Michael J. Bro
Toshiyuki and Piero Carminci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E.
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5', mRNA sequence.
BQ888956
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EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 (bases 1 to 869)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health,
                                                                                                                                                                                                                                                                                                                                                                            CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
CDNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC Clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2314 row: m column: 15
High quality sequence stop: 645.
Location/Qualifiers
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Mammalia; Eutheria; Primates;
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                                                                                     176
   Conservative
                                                                                 /Glone_lib="NIH_MGC_110"
/Glone_lib="NIH_MGC_110"
/note="forgan: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: ECGRI; CDNA made by oligo-dT priming.
Birectionally cloned into EcGRI(XhoI sites using the following 5 adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Berald M. Rubin (University Ling Hong in the laboratory of Berald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC_Library."
                                                                                                                                                                                                                                                                                                                                                organism="Homo sapiens"
                                                                                                                                                                                                                                                         tissue_type="ductal carcinoma, cell line"
lab_host="UH10B (phage_resistant)"
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b_xref="taxon:9606"
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                                                                          Homo sapiens (human)
Homo sapiens
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (Dases 1 to 1043)
NIH-WGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                       AGENCOURT 6910865 NIH MGC 110 Homo
           Contact: Robert Strausberg, I
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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                                                             Unpublished
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DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2139 row: p column: 04
High quality sequence stop: 599.
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TGTCCAGATTATTGGCTGCTTTGGCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG
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/db xref="taxon:9606"
/clone="IMAGE:952243"
/tissue_type="ductal carcinoma, cell line"
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/lab host="Outpe="ductal carcinoma, site 1: xhoI;
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/clone=lib="NIH_MGC_110"
/clone=lib="ductal carcinoma, site 1: xhoI;
/clone=lib="ductal carcinoma, site 2: xhoI;
/clone=lib="ductal carcinoma, cell line"
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BU196968 BU196968 1 GI:22710952
EST.
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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Mammalia; Eutheria; Primates; Catarrhini
1 (bases 1 to 905)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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http://image.llnl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.J. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
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gh quality sequence stop: 571.
Location/Qualifiers
                                    TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT 1028
                                                                                                           ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC
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/clone lib="NIH_MGC_110"
/note="Forgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Forgan: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
pirectionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."

Note: this is a NIH MGC Library."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone="IMAGE:6082897"
/clssue_type="ductal carcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_110"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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0 Homo sapiens cDNA clone IMAGE:6082897
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AGENCOURT 8034941 NIH_MGC_110 H
5', mRNA sequence.
BQ691927
BQ691927.1 GI:21817255
EST.
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1 (bases 1 to 912)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                         Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                     CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2362 row: j column: 18
High quality sequence stop: 654.
Location/Qualifiers
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                                                                                                                                                                                                  Unpublished
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/mol_type="mRNA"
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2_110 Homo sapiens cDNA clone IMAGE:6207089
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/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma; cell line"
/lab host="Morgan: ductal carcinoma; pancreas; vector: poTB7; Site_1: XhoI;
/tote="ToTgan: pancreas;
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5', mENA sequence.
BQ888730
BQ888730.1 GI:22280744
EST.
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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Location/Qualifiers
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National Institutes of Health, N
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Mammalia; Eutheria; Primates;
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
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GCGCTGGGGGAGCCTGCGGCTGCCGCCGCTGCACTGCTGGGAGGGGAAAGAAGATTTAGATC 1208
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/clome lib="NIH_MGC_110"
/clome lib="NIH_MGC_110"
/clome lib="library constructed by ling Hong in the laboratory of Gerald M. Rubin (University of California, Barkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).

Note: this is a NIH_MGC_Library."
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mol_type="mRNA"
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Catarrhini;
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Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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BU191090
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High quality sequence stop: 592.
Location/Qualifiers
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
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National Institutes of Health,
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/lab host="PH10B (phage-resistant)"
/clome lib="NH10B (phage-resistant)"
/clome lib="NIH MGC 110"
/clome lib="NIH MGC 110"
/clome lib="NIH MGC 110"
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/site_2: EcoRI; cDNA made by oligo-dT priming.

Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubbin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).

Note: this is a NIH MGC Library."
                                                                                                                                                                                                                                                                                                    /clone="IMAGE:6086034"
/tissue_type="ductal carcinoma,
                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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BU149760
Contact: Robert Strausberg, Email: cgapbs-r@mail.nih.go Tissue Procurement: ATCC
                                           Eukaryota; Metazoa; Chordata; C
Mammalia; Eutheria; Primates; C
1 (bases 1 to 921)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health,
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cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2320 row: o column: 17
High quality sequence stop: 647.
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/mol type="man,"
/db xref="taxon:9606"
/clone="IMAGE:6086248"
/clone="IMAGE:6086248"
/tissue_type="ductal carcinoma, cell line"
/clone_lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/clone_lib="OUNA made by oligo-dT priming.
Site_2: EoRI; cDNA made by oligo-dT priming.
Site_2: EoRI; cDNA made by oligo-dT priming.

Directionally cloned into EcoRI/MoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of Califormia, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).

Note: this is a NIH_MGC Library."

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CDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2389 row: i column: 09
High quality sequence stop: 610.
Location/Qualifiers
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1 (Dases 1 to 996)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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Tissue Procurement: ATCC
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                                                                                                                                                                                                                                                                      Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
cDNA Sequencing by: Agencourt Bioscience Corporation
clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2368 row: a column: 11
High quality sequence stop: 584.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
1 (bases 1 to 858)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection
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/tissue_type="ductal carcinoma, cell line"
/tlab_host="DHIOB (phage=resistant)"
/lab_host="DHIOB (phage=resistant)"
/clone_lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/note="Organ: pancreas; Vector: pOTB7; Site_1:
/note="Organ: pancreas; Vector: pOTB7; Site_1:
Site_2: EcoRI; cDNA made by oligo-dT priming.
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/db_xref="taxon:9606"
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BQ688783.1 GI:21814099
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Note: this is a NHH MGC Library."
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Homo sapiens (human)
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2395 row: k column: 21
High quality sequence stop: 684.
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Tissue Procurement: ATCC
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Conservative
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/clone="IMAGE:6251276"
/tissue_type="ductal carcinoma, cell line"
/lab_hoste="DHIOB (phage-resistant)"
/clone_lib="NIH_MGC_110"
/clone_ste="Porgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Porgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/note: the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit
/(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

Note: this is a NIH_MGC Library."
2 others
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/mol_type="mRNA"
/db_xref="taxon:9606"
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RESULT 40 BQ876718 LOCUS BQ876718 BYMPACHOCLETUNK HOMO SAPIENS CDNA Clone IMAGE:6192192 5', mRNA sequence.
Db 661 GCTTTGATAATTGTTTTGAGGGGAGGAGATGGGAAACAATGTGGGAGTCTCCCTTGAT 716
QY 1509 GCTTTGATAATTGTTTGAGGGGAGGAGATGGAAACAATGTGGAGTCTCCCTCTGAT 1564
Db 601 TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG 660
QY 1449 TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG 1508
Db 541 CACAGTCTGGTGCTTGGGAGAGTCAGGCAGGTTAAACTGCAGGAGCAGTTTGCCACCCC 600
QY 1389 CACAGTCTGGTGCTTGGGAGAGTCAGGGTTAAACTGCAGGAGCAGTTTGCCACCCC 1448
Db 481 GGCTTGACAGCATGAGGTGTTGTGCAGTTCCCCCCAGGCTGTTCTCCAGGCTT 540
Qy 1329 GGCTTGACAGCATGAGGTGTTGTTGCAGTTTCTTCCAGGCTGTTCTCCAGGCTT 1388
Db · 421 CTTTAGGCGTGGCCTGACCAGGCTTCTTCCTACATCTTCTCCCAGTAAGTTTCCCCTCT 480
Qy 1269 CTTTAGGCGTGGGCTGACCAGGCTTCTTCCTACATCTTCCTCAGAAGTTTCCCCTCT 1328
Db 361 TGGACCAGGCTGTGGGTAGATGTGCAATAGAAATAGCTAATTTATTT
Qy 1209 TGGACCAGGCTGTGGGTAGATGTGCAATAGAAATAGCTAATTTATTT
Db 301 GCGCTGAGGGAGCCTGCGGCTGCCGCTGCACTGCTGGGAGGGGAAGAGATTTAGATC 360
Qy 1149 GCGCTGGGGAGACCTGCCGCCTGCCGCCTGCACTGCGAGGGGAAGAGATTTAGATC 1208
Db 241 TTCATGGAGGAGGTGCGCCAGGAGCTGGAGGAGCCTGGAGGAGGAGGTG 300
Qy 1089 TTCATGGAGGAGGTGCGCCAGGAGCTGGAGGAGGAGGAGGAGGAGGCTGACTGA
Db 181 GACCAAGATGGGGAGATCCTGCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 240
Qy 1029 GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGGTCCCCGATGAGTATGAAGTTGGCAGC 1088
Db 121 TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT 180
QY 969 IGCCAGCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT 1028
Db 61 ACCTGGGAGCCTAGAGCCTGATGGACCCTTGTGCCAGTGGCCTTCTC 120
Qy 909 ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC 968
Db 1 CCCCTGCCCGTGGAGGGGAGCTTTGCCATGACCCCGGCCAGCCGGCTTCTGGACCTCATC 60
Qy 849 CCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCTGCTTCTGGACCTCATC 908
Matches 715; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

REFERENCE AUTHORS TITLE JOURNAL COMMENT

ACCESSION VERSION KEYWORDS SOURCE ORGANISM

BQ876718 923 bp mRNA linear EST 16-AUG-2002 AGENCOURT 8415247 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:6192192 5', mRNA sequence.
BQ876718 GI:22268726
EST.

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 923)

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

NIL-MGC http://mgc.nci.nih.gov/.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Dr. James R. Lupski

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium

DNA Sequencing by: Agencourt Bioscience Corporation

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Plate: LiAMN13593 row: n column: 01
High quality sequence stop: 568.
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  GACAGTTATCACATCTGTGGGAGACGAAGAAGGCAGAAGGAGCCACGAGTGCATCATCGA 601
                                                                          TGTGCACCGAGAAATTCACAAGATAACCAACCAGACTGGACAAATGGTCTTTTCAGA 541
                                                                                                                   ACCTCCCAGCTATCACAATGAGACCAACACAGACGCGAAGGTTGGAAATAATACCATCCA 480
                                                                                                                                                ACCTCCCAGCTATCACAATGAGACCAACACAGACACGAAGGTTGGAAATAATACCATCCA 481
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                                                                                                                                                                                                                                                                                                          GTTCCGCGAGGTTGAGGAACTGATGGAGGACACGCAGCACAAATTGCGCAGCGCGGGGAGA 361
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                                       TGTGCACCGAGAAATTCACAAGATAACCAACAACCAGACTGGACAAATGGTCTTTTCAGA 540
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/note="Vector: pCMV-SPORT6 (Life Technologies); Site_1:
Not1; Site_2: Sal1; cDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
5'-TCGACCCACGCGTCCG-3' and
5'-GACTAGTTCTAGATCGCGACGGGCGCCCT(15)-3'. Size selected >
1kb for average insert length 1.9 kb. This is a primary library, non-amplified. Library constructed by Life Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor College of Medicine); available through Life
Technologies."
95 a 304 c 299 g 125 t
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6192192"
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/dev_stage="adult, 16 yr"
/lab_host="DH10B"
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100.0%; Pr
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AGENCOURT 8074816 NIH MGC_110
5', mRNA sequence.
BU185743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLN
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2320 row: p column: 13
High quality sequence stop: 640.
Location/Qualifiers
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1. (bases 1 to 905)
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Tissue Procurement: ATCC
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Inpublished
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                                                                                                                                                                                                                                                                                                         CCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGGCCAGCCGGCTTCTGGACCTCATC
                                                                GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCCGATGAGTATGAAGTTGGCAGC
                                                                                                                     TGCCAGCCCCACAGCCAGAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT 180
                                                                                                                                             TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT
                                                                                                                                                                                                  ACCTGGGAGCTAGAGCCTGATGGACCGTTGGACCGATGCCCAGTGGCCAGTGGCCTCCTC
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                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                        /lab_nost="DH10B (phage-resistant)"
/clone lib="WIH MGC 110"
/clone lib="WIH MGC 110"
/note=Torgan: pancreas; Vector: pOTB7; Site 1: XhoI;
/note=Torgan: pancreas; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."

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/db_xref="taxon:9606"
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lab host="DH10B (phage-resistant)"
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99.9%; pre/
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RESULT 42
BQ719036
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AGENCOURT 8109155 Lupski sympathetic_trunk Homo sapiens cDNA clone
IMAGE:6189394 5', mRNA sequence.
BQ719036
BQ719036.1 GI:21857933
                                                                                                                                                                                            CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium
DNA Sequencing by: Agenocurt Bloscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LINL at:
http://image.llnl.gov
Plate: LLAM13586 row: i column: 11
                                                                                                                                                                                                                                                                                         Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. James R. Lupski
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NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     quality sequence stop: 632.
Location/Qualifiers
/clone lib="Lupski sympathetic trunk"
/note="Vector: pCMV-SPORT6 (Life Technologies); Site_1:
NotI, Site_2: Sall; cDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
                                                  /tissue_type="sympathetic trunk"
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/lab_host="DH10B"
                                                                                         /sex="male"
                                                                                                      /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6189394"
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                                                                                          AGENCOURT_8063962 NIH_MGC_110
5', mRNA sequence.
BO688234
BQ688234.1 GI:21813550
             Bukaryota; Metazoa; Chordata; Craniata; Ve
Mammalia; Eutheria; Primates; Catarrhini;
1 (bases 1 to 883)
                                                       Homo sapiens
                                                                   Homo sapiens
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    http://mgc.nci.nih.gov/
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b; Pred. No. 0;
0; Mismatches
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                                Craniata; Vertebrata;
Catarrhini; Hominidae;
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linear ES

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Euteleostomi;

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ATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATGGCTTTGA 1515
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TACCTCTGTGCCAGGGCAGCATTTTCATATCCAAGATCAATTCCCTCTCTCA
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                                                                                 AAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCAGTGTTGCTCAGCTCC
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S'-GACTAGTTCTAGATCCGAGGGGCCGCCT(15)-3'. Size selected
S'-GACTAGTTCTAGATCCGAGGGGCCGCCT(15)-3'. Size selected
I kb for average insert length 1.9 kb. This is a primary
library, non-amplified. Library constructed by Life
Technologies and donated by J. Lupski, M.D./Ph.D. (Bayl
College of Medicine); available through Life
Technologies."
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217 c 235 g 240 t 2 others
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ш	GGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCAGGCTGTTCTCCAGGCTT 1388	Qy 1329 Db 481
	CTITAGGCGIGGGCIGACCAGGCTICCITCCIACATCITCTICCCAGIAAGIITCCCCICT 1328 	Qy 1269 Db 421
w	TGGACCAGGCTGTGGGTAGATGTGCAATAGAAATAGCTAATTTATTT	QY 1209 Db 361
	GCGCTGGGGGAGCCTGCGGCTGCCGCCGCTGCACTGCTGGGAGGGGAAGAGATTTAGATC 1208	Qy 1149 Db 301
w -	TTCATGGAGGAGGTGCGCCAGGAGCTGGAGGACCTGGAGAGAGCCTGACGAAGAGATG 1148	Qy 1089 Db 241
) GACCAAGATGGGGAGATCCTGCTGCCGAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 1088 	Qy 1029 Db 181
	TGCCAGCCCCACAGCCACAGCCTGGTGTATGTGTGCAAGCCGACCTTCGTGGGGAGCCGT 1028	Qy 969 Db 121
	ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC 968	Qy 909 Db 61
•	CCCCTGCCCGTGGAGGGCGAGCTTTGCCATGACCCCGCCAGCCGGCTTCTGGACCTCATC 908	Qy 849 Db 1
-	h 25.2%; Score 651; DB 13; Length 883; Similarity 99.7%; Pred. No. 0; 51; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Query Match Best Local : Matches 75:
	(Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library." 175 a 223 c 263 g 221 t 1 others	BASE COUNT ORIGIN
, ,	pOTB7; Site_1: XhoI; go-dT priming. //XhoI sites using the //XhoI sites using the //XhoI sheary construct Gerald M. Rubin (Univ Gerald M. Synthesis k	
	1883 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /db_xref="taxon:9606" /clone="IMAGE:6207793" /clone="IMAGE:6207793"	
	<pre>lttp://image.lln1.gov late: LiCM2364 row: h column: 02 ligh quality sequence stop: 680.</pre>	
	Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tissue Procurement: ATCC	
	ational Institutes of Health, Mammalian Gene Collection (MGC)	TITLE I

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REFERENCE
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                                                                                       849 CCCCTGCCCGTGGAGGCCGAGCTTTGCCATGACCCCGGCCAGCCGGCTTCTGGACCTCATC
  909 ACCTGGGAGCTAGAGCCTGATGGAGCCTTGGACCGATGCCCTTGTGCCAGTGGCCTCCTC
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BQ691372
BQ691372.1 GT:21816688
EST.
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Sukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 916)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://inage.llnl.gov
Plate: LLCM2390 row: h column: 02
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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                                                                                                                                    Conservative
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/tlssue_type="ductal carcinoma, cell line"
/tlssue_type="ductal carcinoma, cell line"
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/note="Torgan: pancreas; Vector: pOTB7; Site_1: XhoI;
/note: this is a NIH MGC library."
93 a 224 c 275 g 224 t
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mol_type="mRNA"

db_xref="taxon:9606"
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Mammalla; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 889)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collect
                                                                                                             Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
        CDNA Library Preparation: Rubin Laboratory
CONA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCN2308 row: k column: 11
High quality sequence stop: 600.
Location/Qualifiers
                                                                                                                                     Unpublished Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                      Homo
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/mol type="maNA,"
/db xref="taxon:9606"
/clone="IMAGE:6081538"
/tissue_type="ductal carcinoma, cell
/lab host="DH108 (phage-resistant)"
/clone_lib="NIH_MGC_110"
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Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCARGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unpublished
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//Clone lib="NIH_MGC_110"
//Dote="Organ: panoreas; Vector: pOTB7; Site_1: XhoI;
/note="Organ: panoreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5; adaptor: GGCAGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

Note: this is a NIH_MGC Library."

a 226 c 275 g 225 t 3 others
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/db_xref="taxon:9606"
/clone="IMAGE:6085176"
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AGENCOURT 8046835 NIH_MGC_110 Homo
5', mRNA Sequence.
B0686410
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CDNA Library Arrayed by: The I.M.A.G.E. Consortium
CDNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2367 row: m column: 17
High quality sequence stop: 614.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Robert Strausberg, I
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 (bases 1 to 879)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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                        174
              /mol type="mRNA"
/db xref="taxon:960"
/clone="IMAGE:6209080"
/clone="IMAGE:6209080"
/tissue_type="ductal carcinoma, cell line"
/tissue_type="ductal carcinoma, site"
/tone lib="NIH_MGC_110"
/clone_lib="NIH_MGC_110"
/fore="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/site_2: EcoRI; cDNA made by oligo-dT priming,
/site_2: EcoRI; cDNA made by oligo-dT priming
/prectionally cloned into EcoRI/XhoI sites using the
following 5: adaptor: GGCAGGGG). Library constructed by
/ting Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
/stratagene) and Superscript II RT (Life Technologies).

Note: this is a NIH_MGC_Library."

1 others
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BQ687171.1 GI:21812487
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collect Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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                                                                                                                                                                                    GGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAGCTCCCCAGGCTGTTCTCCAGGCTT
                                                                                                                                                                                                                                                                                                   TGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATG
                                                                                 CACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTTGCCACCCC
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/clone_lb="NIH_MGC_L10"
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/site_2: EORI; cDNA made by collog-dT priming.

Site_2: EORI; cDNA made by cligo-dT priming.

The pancreas; Vector: pOTB7; Site_1: XhoI;
/site_1: EORI; cDNA made by cligo-dT priming.

Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).

Note: this is a NIH_MGC Library."

Note: this is a NIH_MGC Library."

1 others
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/db_xref="taxon:9606"
/clone="IMAGE:6210042"
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RESULT 49
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AGENCOURT 8064671 NIH_MGC_110 Homo sapiens cDNA clone IMAGE:6206301
5', mRNA sequence
BQ878479
BQ878479.1 GI:22270487
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cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
plate: LLCM2360 row: i column: 22
High quality sequence stop: 686.
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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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1 (bases 1 to 871)

NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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                          GACCAAGATGGGGAGATCCTGCTGCCCAGAGAGGTCCCCGATGAGTATGAAGTTGGCAGC 1088
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                                                                                                                                                                                                                                                                                                                                                                                                                      /tissue_type="ductal carcinoma, cell line"
/lab host "DH108 (phage-resistant)"
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/site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI; XhoI sites using the following 5' adaptor: GGCAGG(G). Library constructed by Ling.Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
10 a 219 c 262 g 216 t 1 others
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/clone="IMAGE:6206301"
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Pred. No. 0;
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cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM2392 row: n column: 04
High quality sequence stop: 584.
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EQ680559

AGENCOURT 8345000 NIH MGC_110

5', mRNA sequence.

EQ689559
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1 (bases 1 to 926)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (human)
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/db Xref="taxon:9666"
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/tissue_type="ductal carcinoma, cell line"
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/clone="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
/note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; CDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Library constructed by
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The sequence is that of cerebellum and embryo specific protein CC (CESP). CESP is involved in: (i) the regulation of collateral CC circulation (particularly in the heart), coronary artery restenosis CC following a revascularisation procedure, apoptosis in myocytes; (ii) the CC modulation of myocyte development in the developing heart; (ii) CC regulation of circulating blood volume, vascular tone, blood pressure and CC cardiac output, diuresis, natriuresis; (iii) facilitation of transudation CC of plasma water to the interstitium, and (iv) inhibition of the release CC or action of hormones such as aldosterone, angiotensin II, endothelins, CC renin and vasopressin. The products can be used in the diagnosis and CC treatment of CESP related disorders, e.g. coronary restenosis following CC myocardial infarction, atrial and/or ventricular arrhythmias, heart CC block, hereditary medial necrosis of small coronary arteries, early scardiomyopathy, arrhythmogenic right ventricular dysplasia, atherocc sclerotic heart disease, venous thrombosis or Reynaud's syndrome.
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Best Local Sim
Matches 350;
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AAY92069-75 are novel mouse and human DKR polypeptides. The human DKR-3 open reading frame has homology to human rig-like 7-1 mRNA and to chicken lens fiber protein clfest 4 gene. Human DKR-3 appears to be secreted, with a signal peptide cleavage site after either amino acid 20 or 21.

DKR-1 is a human ortholog of dkk-1 (dickkopf-1), a novel gene identified
                                                                                     New nucleic acid molecule encoding a biologically active polypeptide, useful in treatment of cancer, e.g. mammary stem cell tumors
                                                                                                                                                        Bass MB,
                                                                                                                                                                                            25-SEP-1998;
                                                                                                                                                                                                              17-SEP-1999;
                                                                                                                                                                                                                                                                                Region
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Peptide
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dkk-1;
                                                                   Claim 18; Page 126-127; 143pp; English.
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dickkopf-1; antagonist; wnt-8 signaling; morphogenesis;
factor; cytostatic; sonic hedgehog; tissue differentiat
                                                                                                                                                                         AMGEN INC
                                                                                                                            AAA08839
                                                                                                                                                       Sullivan JK,
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41..42
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106
                                                                                                                                                                                                                                                                               /note= "N-glycosylated"
300..350
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/note= "putative"
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'note= "putative"
                                                                                                                                                                                                                                                                      "alpha helical region"
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Best Local Sim:
Matches 350;
                                                                       24-FEB-2000; 2000GB-0004412.

24-FEB-2000; 2000GB-0006285.

15-MAR-2000; 2000GB-0028734.

24-NOV-2000; 2000GB-0028734.

28-NOV-2000; 2000GB-0724391.

08-DEC-2000; 2000GB-0736305.

12-DEC-2000; 2000US-0750395.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DKK-3; detection;
neuralgic defect;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human DKK-3
                                                                                                                                                                                                                                                                                                                 26-FEB-2001; 2001WO-IB00259
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                                                                                                                                                                                                                                                                                                                                                                    This invention describes a novel method for detecting the presence of schizophrenia associated features (SPs) and schizophrenia associated CC protein isoforms (SPis) in samples, e.g. by electrophoresis, immunoassay CC or hybridisation assay, for diagnosing and monitoring schizophrenia. Studying the effectiveness of treatments and for identifying potential CC therapeutic agents. The products of the invention have neuroleptic activity and can be used in vaccines or for gene therapy. The method (I) is used: (I) for screening or diagnosis of schizophrenia and the relative abundance of at least 1 chosen feature correlates with the presence or cabsence of schizophrenia and for monitoring the effect of therapy CC of at least 1 chosen feature which correlates with the severity of consciules (e.g. secondary messengers) are studied to diagnose CC schizophrenia. The expression and activity of the SFs, SPIs and related CC schizophrenia, monitor the progress of the disorder and the effectiveness of treatment and as targets to identify and produce potential therapeutic cagents for the treatment of schizophrenia. The paucity of detectable curvalgic defects distinguishes neuropsychiatric disorders such as schizophrenia from neurological disorders, where manifestations of consequently the identification and characterisation of cellular and/or molecular causative defects and neuropathhes are necessary for improved treatment of neuropsychiatric disorders. This sequence represents the human DKK-3 protein described in the method of the invention.
                                                                                                                                                                                                                                                        Matches 350;
                                                                                                                                                                                                                                                                               Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                       Sequence
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N-PSDB; AAI69309.
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NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
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Pred. No. 0;
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PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAAALLGGEEI

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CHDPASRLLDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL CHDPASRLLDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL DSECCGDQLCVWGHCTKWATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL

PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAALLGGEEI

241

241 181 181

DSECCGDQLCVWGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL

RESULT 4
AAG62468
ID AAG6
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AC AAG6
XX AAG62468 standard; Protein;

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AAG62468

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RESULT 5
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Matches 350
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                                                      AAB87529 standard;
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AAB87529
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DB; AAH45489, AAH45490, AAH45491
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                                                   Protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nhibiting protein REIC and polynucleotide encoding therapy of cancer and as an antiviral agent
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01-MAR-2000;
03-MAR-2000;
                                                                                                                                                                                                                                               The present sequence is a human PRO polypeptide (secreted and transmembrane). The PRO protein, and PRO agonists, PRO antagonists o anti-PRO antibodies are useful for preparation of a medicament useful the treatment of a condition which is responsive to the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO protein may all employed as molecular weight markers for protein electrophoresis. The coding sequence has applications in molecular biology, including use hybridisation probes, and in chromosome and gene mapping.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eaton DL,
Grimaldi (
                                                                                                                                                                                                                                                                                                                                                                            Eighty four nucleic acids encoding PRO polypeptides, useful in molecular biology, including use as hybridization probes, and chromosome and gene mapping.
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                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                      Claim 12; Fig 8; 278pp; English
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22-MAY-2000;
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                   DSECCGDQLCVWGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL
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                                                                                                              TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                                                                                                                                      MORLIGATILICILLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
 DSECCGDQLCVWGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL
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J, Gurney
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2000WO-US04341.

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2000US-0209832
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99WO-US21090.
99US-0169495.
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Watanabe
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Pred. No. 0;
0; Mismatches
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Filvaroff E, Fong S, Godowski PJ, Grimaldi
Mather JP, Pan J, Pao
Williams PM, Wood WI;
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16-DEC-1999;
20-DEC-1999;
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15-SEP-1999;
05-OCT-1999;
29-NOV-1999;
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26-JUL-1999;
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  useful for trea squamous cell c enterocolitis),
                                                                        The present sequence is one of sixty transmembrane PRO polypeptides. The F
                                                                                                                                                  Claim 1;
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                                                                                                                                                                                                                     the treatment of skin di
squamous cell carcinoma)
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28-JUL-1999;
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                                                                                                                                                                                                                   one nucleic acids encoding PRO polypeptides which are useful reatment of skin diseases (e.g. psoriasis), cancers (e.g. lumous cell carcinoma) and neurodegenerative diseases (e.g.
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embrane PRO polypeptides. The PRO polypeptides are for treating skin diseases (e.g. psoriasis), cancers (e.g. lung us cell carcinoma), gastrointestinal diseaters (e.g. colitis), neurodegenerative diseases (e.g. Alzheimer's disease,
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Fong S, Gao W, Gerber H,
Grimaldi CJ, Gurney AL, H
an J, Paoni NF, Roy MA, S
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99US-0146222.
99WO-US20594.
99WO-US210904.
99WO-US21090.
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99WO-US23089.
99WO-US23089.
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99WO-US23013.
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Stewart TA,
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1 ME, Goddard
Kljavin IJ;
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10-JUN-1998
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                                                                                                                                                                                                                                                                                                                                                                  29-AUG-2002.
                                                                                                                                                                                                                                            29-OCT-1997;
29-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     articular cartilage
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29-APR-1998;
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                    98US-083495P.
98US-085579P.
98US-088811P.
98US-088824P.
98US-088825P.
98US-089105P.
98US-089514P.
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97US-064215P.
98US-082797P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     osteopathic;
ilage defect;
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osteoarthritis; rheumatoid
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Pred. No. 0;
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The invention relates to an isolated secreted and transmembrane PRO
CC polypeptide having 80 % sequence identity to a sequence appearing
CC as ABG95951 and or their associated signal peptide. Or a sequence of
CC an extracellular domain of the proteins with their associated signal
C peptide or lacking its associated signal peptide. Also included are
CC the nucleic acids encoding the proteins, vectors, host cells,
CC The proteins are useful for detecting a polypeptide designated as A, B, C
CC or D in a sample suspected of containing an A, B, C or D polypeptide,
CC or D/I polypeptide conjugate with a polypeptide designated as B, B/G, C/H
CC or D/I polypeptide conjugate in the sample, where the formation of the
CC or D/I polypeptide, Where A is a PRO10272 polypeptide, B is a PRO20110
CC polypeptide, C is a PRO1028 polypeptide B is a PRO20110
CC polypeptide, H is a PRO1028 polypeptide B is a PRO20140
CC polypeptide, H is a PRO20233 polypeptide and I is a PRO1890 polypeptide, G is a PRO20140
CC polypeptide, The sample comprises a cell suspected of expressing the A,
CC B, C or D polypeptide is a tatached to a solid support. The proteins are
CC useful for linking a bioactive molecule to a cell expressing the A,
CC adtectable label or is attached to a solid support. The proteins are
CC causes death of the cell as A, B, C or D or E, F, G, H or I, or antibodies
CC adjusts or antagonists, for the preparation of a cell expressing a polypeptide designated as A, B, C or D or E, F, G, H, or I, or antibodies
CC adjusts or antagonists, for the preparation of a medicament useful in
CC expressing a polypeptide designated as A, B, C or D or E, F, G, H, or I, or antibodies
CC adjusts or antagonists, for the preparation of a medicament useful in
CC expressing a polypeptide designated as A,
CC or D or E, F, G, H, or I, or antibodies
CC adjusts or antagonists, for the preparation of a medicament useful in
CC expressing the markers for proteins are useful for identifying
CC articular cardial performance as a processing and as
CC marticu
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30 MAR-2000; 2000W0-US08439

22 MAY-2000; 2000W0-US15264

23 AUG-2000; 2000W0-US15264

24 AUG-2000; 2000W0-US23522

24 AUG-2000; 2000W0-US23528

10-NOV-2000; 2000W0-US33378

20-DEC-2000; 2000W0-US3378

20-DEC-2000; 2000W0-US33956

20-DEC-2000; 2000W0-US34956

26-FEB-2001; 2001W0-US06520

29-JUN-2001; 2001W0-US21666

09-JUL-2001; 2001W0-US21735
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15-SEP-1999;
15-SEP-1999;
22-DEC-1999;
18-FEB-2000;
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14-MAY-1999;
02-JUN-1999;
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99WO-US10733
99WO-US12525
99WO-US20111
99WO-US20111
99WO-US21190
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99WO-US31194
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2000WO-US04341
2000WO-US04343
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Wood WI;
   identification,
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Best Local
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20-JUL-2000;
25-JUL-2000;
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28-JUL-2000;
28-JUL-2000;
21-JUG-2000;
23-JUG-2000;
23-JUG-2000;
24-JUG-2000;
25-SEP-2000;
15-SEP-2000;
18-SEP-2000;
18-SEP-2000;
24-OCT-2000;
                                                                                                                                                                                                                                                                                                                    Human; angiogenesis; PRO protein; cardiovascularisation; wound; atherosclerosis; cardiac hypertrophy; gene therapy; endothelial cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        therapy. The antibody is useful as a therapeutic agent, in a diagnost assay and for affinity purification of the protein from recombinant cell culture natural sources. The present sequence represents a novel secreted or transmembrane protein of the invention.
                                                                                                                                                                                                  09-JUL-2001;
                                                                                                                                                                                                                             31-JAN-2002.
                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                         Human angiogenesis related protein
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7 2000US-21956P.

7 2000US-22064P.

7 2000US-22064P.

7 2000WG-US20710.

7 2000US-22695P.

7 2000WG-US23522.

7 2000WG-US23522.

7 2000US-0643657.

7 2000US-00000P.

7 2000US-00000P.

7 2000US-0664610.

7 2000US-0664610.

7 2000US-0654352.

7 2000US-0654352.
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Pred. No. 0
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110-NOV-2000;
01-DEC-2000;
20-DEC-2000;
22-JAN-2001;
28-FEB-2001;
28-FEB-2001;
01-MAR-2001;
01-MAR-2001;
01-MAR-2001;
05-APR-2001;
05-APR-2001;
10-MAY-2001;
11-MAY-2001;
25-MAY-2001;
25-MAY-2001;
25-MAY-2001;
30-MAY-2001;
30-MAY-2001;
30-MAY-2001;
30-MAY-2001;
30-MAY-2001;
                                                                                                                                                                                                                                                                                   Baker KP, Ferrar-
Godowski PJ, Gurney AJ
                                                                                                  atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast carcinoma and liver carcinoma) and wound healing. The present sequence is a PRO protein of the invention.
                                                                                                                                         The present invention provides the protein and coding sequences of human PRO proteins. These are useful for treating or diagnosing a cardiovascular, endothelial or anglogenic disorder, including cardiac hypertrophy, trauma, cancer, age-related macular degeneration,
                                                                                                                                                                                                                One hundred and eighty seven nucleic acids encoding useful in diagnosis and treatment of cardiovascular infarction), endothelial or angiogenic disorders in
                                                                                  Sequence
                                                                                                                                                                                             Claim 11; Fig 50; 567pp; English.
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GODOWSKI P J.
GURNEY A L.
HILLAN K J.
MARSTERS S A.
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STEPHAN J F.
WATANABE C K.
WILLIAMS P M.
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BAKER K P.
                                                   Similarity
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                     MQRLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
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                                          Conservative
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2001US-0854280.
2001US-0854280.
2001US-0866028.
2001US-0866034.
2001US-0870574.
2001US-0870574.
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2001US-0767609.
2001US-0796498.
2001WO-US06520.
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2001US-0808689.
2001US-0816744.
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2000WO-US30873.
2000WO-US32678.
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L, Hillan KJ, Ma
CK, Williams PM,
                                         0,
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Pred. No. 0
                                         Mismatches
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Ye W;
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The invention relates to an isolated molecule comprising an antibody variable region which specifically binds to an extracellular domain of tumour endothelial marker (TEM) protein selected from ABB90732, ABB9074 ABB90749, ABB90750 and ABB90769. The antibodies which bind to TEM proteins have cytostatic, immunostimulant and antiangiogenic activity. They are useful for inhibiting tumour growth, neoangiogenesis in subjects bearing a vascularised tumour, polycystic kidney disease, diabetic retinopathy, rheumatoid arthritis and psoriasis. Human, mouse and rat TEM genes and the encoded proteins (ABL92075-ABL92141 and ABB90789) are disclosed, as are marker oligonucleotide sequences: tumour endothelial markers (TEM) ABL91996-ABL92041 and
                                                                                                                                                                                                                                                                                                                                                                                                                  An isolated molecule comprising an antibody variable region which specifically binds to an extracellular domain of a tumor endothel marker (TEM) protein, useful for inhibiting tumor growth -
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11-AUG-2000; 2000US-224360P
11-APR-2001; 2001US-282850P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; mouse; rat; TEM; tumour endothelial marker; NEM; PEM; cytostatic normal endothelial marker; pan-endothelial marker; immunostimulant; antiangiogenic; tumour; necangiogenesis; vascularised tumour; polycystic kidney disease; diabetes; retinopathy; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                            Claim 54; Page 156-157; 331pp; English.
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DB; ABL92089.
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28-JUL-2000;
02-AUG-2000;
17-AUG-2000;
23-AUG-2000;
24-AUG-2000;
07-SEP-2000;
18-SEP-2000;
18-SEP-2000;
                                                                                                         20-JUL-2000;
25-JUL-2000;
25-JUL-2000;
                                                                                                                                                                                                                                                                                  Human; angiogenesis; cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma; gene therapy; cardiovascular disorder; endothelial disorder; cancer; angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension; age-related macular degeneration; arterial restensis; angina; rheumatoid arthritis; myocardial infarction; thrombophlebitis; lymphangitis; tumour anglogenesis; breast carcinoma; liver carcinoma; wound healing; chromosome mapping; gene mapping.
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                                                                                                                                                    23-JUN-2000;
                                                                                                                                                                                                          03-JAN-2002
                                                                                                                                                                                                                                   WO200200690-A2
                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                Human PRO295 protein sequence SEQ ID NO:50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABB84841 standard;
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pan-endothelial markers
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milarity 100.0%;
Conservative 0;
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2000WO-US20710.

2000US-22595P.

2000US-0643657.

2000WO-US23522.

2000WO-US23328.

2000WS-230978P.

2000US-0664610.

2000US-0665350.
                                                                                                         2000US-213637P.
2000US-219556P.
2000US-220624P.
2000US-220664P.
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25-MAY-2001;
25-MAY-2001;
25-MAY-2001;
30-MAY-2001;
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08-NOV-2000;
08-NOV-2000;
10-NOV-2000;
01-DEC-2000;
                                            antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic activities, and can be used in gene therapy. The PRO polynucleotides, proteins, agonists and antagonists are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder in a mammal, e.g. cardiovascular, endothelial or angiogenic disorder in a mammal, respectively, trauma, cancer, age-related macular degeneration, atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast carcinoma and liver carcinoma) and wound healing. The PRO polynucleotides have applications in molecular biology, including use as hybridisation probes, and in chromosome and gene mapping. ABLB8259 to ABLB8267 represent primers and probes used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-MAR-2001
05-APR-2001
10-MAY-2001
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20-DEC-2000;
22-JAN-2001;
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Godowski l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       One hundred and eighty seven nucleic acids encoding PRO polypeptides, useful in diagnosis and treatment of cardiovascular (e.g. myocardial infarction), endothelial or angiogenic disorders in a mammal -
                                                                                                                                                                                                                                                                                                                                                                                                                ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to ABB85003. The PRO proteins and polynucleotides have cardiant, cyt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 11; Fig 50; 565pp; English.
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09-MAR-2001
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28-FEB-2001;
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JF, Watanabe
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J, Gurney
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2001US-080689.

2001US-0816744.

2001US-0828366.

2001US-0854208.

2001US-0856028.

2001US-0866028.

2001US-0866034.

2001US-0870574.

2001US-0870574.
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2000US-0709238.
2000WO-US30952.
2000WO-US30873.
2000WO-US32678.
2000US-0747259.
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2001US-0802706.
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L, Hillan KJ, M
CK, Williams PM,
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KJ, Marsters
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Wood WI, Ye
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Ye W;
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Sequence 350 AA;

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Best Local Similarity
                                                                                                                                                                                                             350;
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                              NOTGOMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
                                                 NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
                                                                                                                                                                               MORIGATILICILIAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
DSECCGDQLCVWGHCTKWATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL
                                                                                          TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                                                                                                                     TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                                                                                                                                                   MORLGATLLCLLLAAAVPTAPAPAPATSAPVKPGPALSYPQEEATLNEMFREVEELMED
                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                            100.0%;
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                                                                                                                                                                                                             Score 350; D
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                          DB
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                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                         Length 350;
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                                                                                                                                                                                                             Gaps
                                180
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RESULT 11
ABUG662
XX ABUG6
XX ABUG6
XX Novel
XX Human
KW extext
KW diabet
KW diabet
XX US20(
XX US20(
XX III-UI
PR 16-SI
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  08-DEC-1998;
08-SEP-1999;
13-SEP-1999;
15-SEP-1999;
05-OCT-1999;
05-OCT-1999;
01-DEC-1999;
01-DEC-1999;
02-DEC-1999;
02-DEC-1999;
02-DEC-1999;
03-DAC-1999;
04-DEC-1999;
05-JAN-2000;
07-DEC-1999;
07-SEP-1997;
07-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; secreted and transmembrane protein; gene therapy; psoriasis; enterocolitis; gastrointestinal ulceration; skin disease; keratinocyte differentiation; epithelial cancer; Alzheimer's disease squamous cell carcinoma; Parkinson's disease; inflammatory disease; amyotrophic lateral sclerosis; rheumatoid arthritis; asthma; multiple sclerosis; organ failure; atherosclerosis; cardiac injury; inferrility; birth defect, premature aging; AIDS; cancer; diabetic complication; wound repair; tissue re-growth.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-SEP-1998;
17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-SEP-1998;
14-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-JAN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABU69662 standard; Protein; 350 AA
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  98WO-US1824
98WO-US1937
98WO-US1937
98WO-US25108
99WO-US25109
99WO-US21090
99WO-US21090
99WO-US21090
99WO-US23089
99WO-US23089
99WO-US2831
99WO-US2831
99WO-US2831
99WO-US2830
99WO-US28564
99WO-US28565
99WO-US3099
99WO-US30991
99WO-US3091
99WO-US0511
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29-OCT-1997
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29-OCT-1997
29-OCT-1997
29-OCT-1997
29-OCT-1997
31-OCT-1997
31-OCT-1997
31-OCT-1997
11-NOV-1997
11-NOV-1997
24-NOV-1997
25-NOV-1997
26-NOV-1998
10-SEP-1998
11-SEP-1998
13-OCT-1998
13-OCT-1998
20-NOV-1999
18-SEP-1998
20-NOV-1999
20-JUL-1999
20-JUL
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17-SEP-1997;
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970S-059184P

970S-059286P

970S-062285P

970S-062285P

970S-062285P

970S-062814P

970S-062814P

970S-063120P

970S-063121P

970S-063121P

970S-063121P

970S-063121P

970S-063121P

970S-063544P

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970S-063544P

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970S-063544P

970S-063722P

970S-064459P

970S-064454P

970S-064454P

970S-064454P

970S-0664454P

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970S-066554P

970S-066459

970S-066459

970S-066459

970S-066459

970S-066554P

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Ashkenazi A, Botstein D, Desnoyers L, I Filvaroff E, Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi JC, Gurney AL, H Mather JP, Pan J, Paoni NF, Roy MA, S' Williams FM, Wood WI; H, Gerritsen H Hillan KJ, I Stewart TA, Ferrara N;
n ME, Goddard ,
Kljavin IJ;
Tumas D; Þ

WPI; 2003-341586/32. N-PSDB; ACA55002.

New PRO polypeptides and nucleic acid molecules, useful in diagnosing or treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's disease

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RESULT 12
ABU71485
ID ABU71
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 350
                                   19-DEC-2002.
                                                                         US2002192659-A1
                                                                                                                                                 neuroprotective.
                                                                                                                                                                Human; secreted and transmembrane Alzheimer's disease; ischaemia; cy
                                                                                                                                                                                                                        Human PRO polypeptide #41
                                                                                                                                                                                                                                                              10-JUN-2003
10-JUL-2001; 2001US-0902853
                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                     standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR 180
                                                                                                                                                                                                                                                                                                                                                                                                                                   PREVPDEYEVGSFMEEVROELEDLERSLTEEMALGEPAAAAAALLGGEEI 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                         PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAAALLGGEEI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TQHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETINTDTKVGNNTIHVHREIHKITN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         84; 473pp; English
                                                                                                                                                                                                                                                                                                                                     Protein; 350 AA
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Pred. No. 0;
                                                                                                                                                                ne protein; PRO polypeptide; cancer;
cytostatic; nootropic; vasotropic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     350
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Query Match Best Local S Matches 350

Local Sin

Similarity

100.0%;

Score 350; I Pred. No. 0; Mismatches

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0,

60

В

MORIGATILICITIAAAVETAPAPAPTATSAPVKPGPALSYPQEEATINEMFREVEELMED MÓRLGÁTLLCLLLAAAVÞTÁÞÁÞAÞTATSAÞVKÞGÞALSYÞQEEATLNEMFREVEELMED

Sequence

350 AA;

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Ashkenazi A, Botstein I
Filvaroff B, Fong S,
Godowski PJ, Grimaldi (
Mather JP, Pan J, Pao)
Williams PM, Wood WI;
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15-SEP-1999
15-SEP-1999
15-SEP-1999
05-OCT-1999
01-DEC-1999
02-DEC-1999
02-DEC-1999
02-DEC-1999
02-DEC-1999
05-JAN-2000
02-FEB-2000
03-FEB-2000
03-FEB
                                       The present invention relates to the isolation of novel human secreted and transmembrane proteins (PRO polypeptides), and the polynuclectide sequences encoding them. The polynuclectide sequences are useful in molecular biology, as hybridisation probes, in chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy. The polynuclectide sequences may also be used in preparing PRO polypeptides by recombinant techniques, and in generating either transgenic animals or knock-out animals which, in turn, are useful in the development and screening of therapeutically useful reagents. The PRO polypeptides or their antibodies are useful in preparing a medicament for treating a condition responsive to the polypeptide or antibody, such as cancer, Alzheimer's disease or ischaemia, and in various diagnostic assays. ABU71445-ABU71505 represent human PRO polypeptides of the invention.
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14-SEP-1998;
16-SEP-1998;
17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 PRO1868, useful in molecular biology, chromosome and gene mapping, generating antisense RNA and DNA, and in gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 12; Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GETH ) GENENTECH INC.
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DB; ACA58487.
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2000WO-US03565.
2000WO-US04414.
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Fong S, Gao W, Gerber H,
Grimaldi JC, Gurney AL, I
an J, Paoni NF, Roy MA, 1
                                                                                                                                                                                                                                                                                                                                                                                                                       84; 474pp; English.
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99WO-US30095.
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Stewart TA,
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Tumas D
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Goddard A;
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ABU71509
ID 7689
ID 76
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25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
15-SEP-1999;
11-OCT-1999;
12-NOV-1999;
22-AUG-2000;
18-SEP-2000;
18-SEP-2000;
18-SEP-2000;
20-BUOV-2000;
20-BUOV-2000;
20-BUOV-2000;
210-MAX-2001;
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01-JUN-2001;
14-MAY-1999;
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  99US-0423844.
2000US-0644848.
2000US-0664510.
2000US-0665350.
2000US-0709238.
2000US-0709239.
2000US-0816744.
2001US-0854208.
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2000WO-US05601.
2000WO-US05841.
2000WO-US07332.
2000WO-US14042.
2000WO-US15264.
2000WO-US3328.
2000WO-US332873.
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99US-0397342.
99US-0403297.
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99US-0380138.
99US-0380139.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to an antibody that binds to a polypeptide with a Ci filly defined sequence given in the specification. The methods and compositions (containing antibodies that specifically bind a PRO polypeptide) of the present invention are useful for the preparation of a medicament for the treatment of disorders associated with the aberrant expression or activity of the PRO polypeptide, such as tumour conditions and cancer. They can also be used to generate transgenic or knockout can animals useful in the development and screening of therapeutically useful reagents. The PRO polypeptides and encoding nucleic acids can be used as molecular weight markers for protein electrophoresis, chromosome identification and tissue typing. The PRO polypeptides are useful to induce angiogenesis e.g wound healing, in the treatment of sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis; diabetes; hyperinsulinaemia and hypoinsulinaemia. The can introduce may be used in various diagnostic, competitive binding and/or immunoprecipitation assays. The present sequence represents the amino cald sequence of a PRO polypeptide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                              Matches 350;
                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
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30-MAY-2001; 2001US-0870574.
05-JUN-2001; 2001US-0874503.
29-JUN-2001; 2001US-0869599.
18-JUL-2001; 2001US-0908827.
06-DEC-2001; 2001US-0006867.
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Grimaldi d
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                PREVPDEYEVGSFMEEVRQELEDLERSLTEEMALGEPAAAAAALLGGEEI
                                                                                      CHDPASRILDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL
                                                                                                                                                                     DSECCGDQLCVWGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGEL
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                                                                   CHDPASRLLDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL
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C, Gurney AL,
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Watanabe CK,
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Pred. No. 0;
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RESULT 14 ABU71931

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Human; secreted protein; transmembrane protein; PRO; gene therapy; chromosome identification; chromosome marker.
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17-SEP-1997;
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2000WO-US23328
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2000WO-US14042
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97US-063120P.
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S-059121P.
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17-NOV-1997;
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24-NOV-19
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97US-065693P.
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97US-066364P.
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97US-063734P.
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Ashkenazi A, Botstein I Filvaroff B, Fong S, Godowski PJ Grimaldi Mather JP, Pan J, Pao Williams PM, Wood WI; Botstein D, Desnoyers L, Fong S, Gao W, Gerber H, Grimaldi JC, Gurney AL, F , Eaton DL, Ferrara N; 1, Gerritsen ME, Goddard A; Hillan KJ, Kljavin IJ; Stewart TA, Tumas D;

N-PSDB; ACA60194. WPI; 2003-329602/31.

New transmembrane polypeptides and nucleic acids encoding the polypeptides, useful in gene therapy, in chromosome identification, chromosome markers, in generating probes and in tissue typing -

Claim 12; Fig 84; 484pp; English.

Consider acid sequence identity to a nucleot acid with at reast or consider acid sequence identity to a nucleotide sequence encoding one of constant and sequence identity to a nucleotide sequence encoding a constant sequence identity to a nucleotide sequence encoding a constant sequence identity to a nucleotide sequence encoding a constant sequence identity is sequenced. A host cell comprising the vector, producing a PRO polypeptide (by culturing the host cell for the expression of the PRO polypeptide (having at least 80° sequence identity to: (a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino acid sequence encoded by a nucleic acid molecule deposited (b) an amino acid sequence encoded by a nucleic acid molecule deposited (c) its associated signal peptide), a chimaeric molecule comprising a PRO polypeptide of fused to a heterologous amino acid sequence, an anti-PRO containing the polypeptide, linking a bioactive molecule comprising a PRO polypeptide, linking a bioactive molecule to a cell containing the polypeptide, linking a bioactive molecule to a cell activity of a cell expressing a PRO245 or PRO1868 in a sample suspected of containing the polypeptide, linking a bioactive molecule cacids which encode PRO can be used to generate either transgenic animals or knock-out therapeutically useful reagents. The nucleic acids may also be used in the development and screening of therapeutically expressing the polypeptides are useful as molecular markers or in generating probes The PRO polypeptides are useful as molecular markers or in recembinantly expressing these markers. The PRO polypeptides and or archibodies are useful in diagnostic assays for PRO, and in affinity purification of PRO from recombinant cell culture or natural sources. The constitution of the properties and surfaces are useful as a processing the properties and processing the pro The invention relates to an isolated nucleic acid with at least 80% sequence represents a PRO protein

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                                                                   New secreted and transmembrane PRO polypeptides and nucleic acid molecules encoding the polypeptides, useful in gene therapy or preparing a medicament for treating a condition that is responsive the PRO polypeptide or antibody -
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                                                                                                                                                                                                                                                                                                                                                                                                        therapeutic agent screening; chromosome gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; secreted and transmembrane polypeptide; chromosome mapping; gene mapping; transgenic a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel human secreted and transmembrane protein
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 The invention describes novel isolated PRO polypeptides. The PRO polypeptides or anti-PRO antibodies are useful in preparing a me
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                                         Claim 1; Fig 8; 409pp; English.
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identification; tissue typing
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Wood WI;
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Eaton DL, F Grimaldi JC,

Filvaroff E,
C, Gurney AL,

Gerritsen ME, Watanabe CK,

Goddard A, Wood WI;

Pg;

06-DEC-2001; 2001US-0006867 01-MAY-2002; 2002US-0063502

(GETH) GENENTECH INC.

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                                                                                                                                                                                                                               Human; PRO polypeptide; secreted and transmembrane protein; anti-PRO antibody; diagnostic assay; gene expression.
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                                                                                                                                          Human; gene therapy; mucosal lesion; ulcer; enterocolitis; skin disease; psoriasis; cancer; lung cancer; colon cancer; nerve cell disease; plantiner's disease; angiogenesis; alzheimer's disease; Parkinson's disease; Usher syndrome; angiogenesis; atrophia areata; inflammatory disease; asthma; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Fig 8; 408pp; English.
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N-PSDB; ACA63376.
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20-MAR-2000
21-FEB-2000
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22-FAX-2000
22-FAX-2000
23-MAR-2000
23-MAR-2000
24-AUG-2000
24-AUG-2000
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21-SEP-1997
17-SEP-1997
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15-SEP-1999;
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Matches 350
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PRO245 or
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N-PSDB;
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07-JUL-1999;
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DB; ACA05532.
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350; Conser
                  NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
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                                                                                                                 MORLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
 NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         isolated nucleic acids encoding a PRO polypeptide, e.g. PRO1868, useful in chromosome and gene mapping, in generating RNA and DNA, and in treating cancer and Alzheimer's disease -
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98US-100858P

98US-100858P

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98US-104080P

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99US-146222P

99US-146222P
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97US-066511P.
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97US-066772P.
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Tumas D;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytostatic; gyne antiinflammatory
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14-SEP-1998;
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2000WO-US01565
2000WO-US01414
2000WO-US05004
2000WO-US050777
2000WO-US08439
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21-NOV-1997;
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17-SEP-1997;
17-SEP-1997;
The invention discloses isolated PRO secreted/transmembrane polypeptides and the nucleic acid encoding them. The polypeptides can be used to raise antibodies that specifically bind to the PRO polypeptide, for linking a bloactive molecule to a cell expressing a PRO protein and for modulating at least one biological activity of a cell. The PRO polypeptides or polynucleotides are also useful as pharmaceuticals, diagnostics, biosensors or bioreactors, for detecting or treating e.g. hyperplasia, endometriosis, cancers (e.g. those involving solid tumours)
                                                                                                                      New secreted and transmembrane PRO polypeptides (e.g. PRO533 or and genes encoding them, useful for detecting or treating e.g. hyperplasia, endometriosis, cancers, ischemia, coronary arterial
                                                                                                                                                                                           Ashkenazi A, Botstein D, Desnoyers L, Filvaroff E, Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi JC, Gurney AL, I Mather JP, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI;
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                                                                                                                disease or
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DB; ABX96211.
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Hillan KJ,
Stewart TA,
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Kljavin IJ;
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Misc-difference
Identifying biologically cells into a cell array,
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DB; AAD52567.
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                                                                                                                                                         motor neuron dise
         03-OCT-2002
                                                   WO200277204-A2
                                                                                                                                                       Notch; Wnt; embryonic stem cell; embryogenesis; human; differentiation; ligand; Parkinson's disease; Huntington's disease; motor neuron disease; heart disease; diabetes; liver disease;
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                                                                                                                                                                                                                                                                                                                                                                                Protein;
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Matches Query Match

Similarity

100. ilarity 100. Conservative

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MORLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED

Sequence

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(i) and which encodes a ligand capable of modulating embryonic stem (iii) nucleic acid molecules which are degenerate as a result of the (iii) nucleic acid molecules which are degenerate as a result of the genetic code to the sequences of (i) or (ii); (b) forming a culture (c) growing the cell identified in (a) with an embryonic stem cell; and (c) growing the cell identified in (a) with an embryonic stem cell; (a) providing at least one polypeptide or its (c) growing a culture for the maintenance and/or differentiation of combryonic stem cells; (a) providing at least one polypeptide or its (c) growing a culture comprising the cell identified in (a) with an an combryonic stem cell; and (c) growing the culture for the maintenance of embryonic stem cells in an undifferentiated state; or (3) Inhibiting the cell identified in (a) with an combryonic stem cells; and undifferentiated state; or (3) Inhibiting the cell transfected with a nucleic acid molecule selected from: (i) a molecule code to the molecule of (i) and encodes a polypeptide capable of inhibiting a cell transfected with a nucleic acid molecules which are degenerate as a result of the genetic code to the sequences of (i) or (ii); (b) forming a cell identified in (a) with an embryonic stem cell; and (c) growing the culture for the maintenance of inhibiting the cell identified in (a) with an embryonic stem cell; and (c) growing the culture for the maintenance of embryonic stem cell; and (c) growing the culture for the maintenance of embryonic stem cell; and (c) growing the culture for the maintenance of embryonic stem cell; and (c) growing the culture for the maintenance of embryonic stem cell; and (c) growing the culture for the maintenance of embryonic stem cell; and (c) growing the culture for the maintenance of embryonic stem cell; and (c) growing the culture for the maintenance of embryonic stem cell; and (c) growing the culture for the maintenance of embryonic stem cell; and (c) growing the cell identified in (a) with an embryonic stem cell; and (c) g
                                           neuron disease, heart disease, diabetes, liver disease (e.g., cirrhosis), renal disease and AIDS (acquired immunodeficiency syndrome). The present sequence is represents a Wht or Notch pathway protein (i.e. a ligand for the method of the invention).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            comprising: (a) providing a cell transfected with a nucleic acid molecule selected from: (i) any of 9 fully defined Wnt nucleic acid sequences; (ii) a nucleic acid molecule that hybridises to the nucleic acid in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              stem cell, comprising: (a) providing a culture of embryonic stem cells (b) providing at least one ligand or its active binding fragment, capable of binding its cognate receptor polypeptide expressed by the embryonic stem cell; (c) forming a culture comprising embryonic stem cells and the ligand; and (d) growing the cell culture. Also included are: (1) Modulating the differentiation of embryonic stem cells,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         treating diseases diabetes and AIDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Modulating the differentiation of embryonic stem cells by providing ligands which bind receptors in the Notch and Wnt pathways, useful for treating diseases such as Parkinson's, Huntington's, heart disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-MAR-2001; 2001GB-0007296
23-MAR-2001; 2001GB-0007299
17-APR-2001; 2001GB-0009346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to modulating the differentiation of an embryonic stem cells;
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RESULT 21
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20-DEC-1999;
20-DEC-1999;
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02-DEC
02-DEC
                                                                                                                                                                                                                                                                                                                                                                                                                Human; PRO; secreted protein; transmembrane protein; enterocolitis; gastrointestinal ulceration; skin disease; abnormal keratinocyte differentiation; psoriasis; epithelial cancer squamous cell carcinoma; Alzheimer's disease; Parkinson's disease; amyotrophic lateral sclerosis; inflammatory disease; rheumatoid arthritis; asthma; multiple sclerosis; organ failure; atherosclerosis; cardiac injury; infertility; birth defect; premature aging; AIDS; acquired immunodeficiency syndrome; cancer; premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
                                                                                                                                                                                                                                                                                                                               19-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                         diabetic
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15-SEP-1999
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                    ; 2000WO-US00219.
; 2000WO-US03565.
; 2000WO-US04414.
; 2000WO-US20710.
; 2000WO-US23328.
                                                                                                                                                                                                                                                                                                      2001US-0909320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                  99WO-US30095.
99WO-US30911.
99WO-US30999.
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98WO-US19330
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99WO-US28565
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                                                                                                                                                              -US23089
                                                                                                                                                                          -US21547
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61 TQHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN

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MQRLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED MORLIGATILICILLIAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED

Query Match
Best Local Similarity
Matches 350; Conser

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Length 350; Indels

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Gaps

Sequence polypeptide

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cc sclerosis, organ failure, atherosclerosis, cardiac injury, infertility, cc birth defects, premature aging, AIDS, cancer, diabetic complications, cor mutations in general. The polypeptides are also useful for wound crepair and associated therapies concerned with re-growth of tissue. The nucleotide sequences may be used as hybridisation probes in chromosome and gene mapping, or in generating antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in assays to identify other proteins or molecules involved in binding reaction, to generate transgenic animals or knockout animals, which in turn are useful in the development and screening of therapeutically useful reagents, for chromosome identification, and tissue typing. The PRO polypeptides and nucleal acid molecules are also useful in gene therapy, and as molecular weight markers for protein electrophoresis purposee. The anti-PRO antibodies may be used in diagnostic assays for protein the affinity purification of PRO from recombinant cell collection or natural sources. The present sequence represents a PRO
                                                                                                                                                                                                                                                                                                                                                                            amino acid sequence identity to: (a) any one of 61 fully defined amino acid sequences given in the specification (appearing as ABU54347-CC ABU5447); (b) an amino acid sequence encoded by the nucleotide sequence cd deposited under American Type Culture collection (accession numbers collected in the specification); (c) any one of the PRO sequences which clacks its associated signal peptide; (d) an extracellular domain of the PRO polypeptide with its associated signal peptide; or (e) an cextracellular domain of the PRO polypeptide. Also include are the nucleic acids encoding the PRO colypeptides, vectors, host cells and anti-PRO antibodies. Cor treating enterocolitis, gastrointestinal ulceration, skin diseases associated with abnormal keratinocyte differentiation, e.g. psoriasis cor epithelial cancers such as squamous cell carcinoma, Alzheimer's collsease, Parkinson's disease, amyotrophic lateral sclerosis. Cor sclerosis, organ failure, atherosclerosis, cardiac injury, infertility, intertility, affertility, affertility, infertility, intertility.
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Filvaroı.
Godowski PJ, G..
Godowski PJ, Ga.,
Godowski PJ, Ga.,
Godowski PJ, Godowi, PJ,
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15-OCT-1997;
17-OCT-1997;
17-OCT-1997;
21-OCT-1997;
24-OCT-1997;
24-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New PRO polypeptides and nucleic acid molecules, useful in diagnosing or treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, cancer, AIDS, Alzheimer's disease or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 12; Fig 84; 473pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-147434/14.
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Filvaroff E,
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Fong S, Gao W, Gerber H,
Grimaldi JC, Gurney AL, J
an J, Paoni NF, Roy MA,
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97US-062125P.
97US-062287P.
97US-062287P.
97US-063486P.
97US-062814P.
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Kljavin
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ME, Goddard
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RESULT 22
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AC ABUS4
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The present invention relates to a novel method for the isolation of endothelial cells (ECs), and the identification of genes expressed in normal and tumour ECs. Tumour endothelial marker (TEM), normal endothelial marker (NEM), and pan-endothelial marker (PEM) genes are identified in human ECs. The human EC marker proteins and the polymucleotide sequences encoding them are useful for detecting, diagnosing or treating tumours as well as polycystic kidney disease, diabetic retinopathy, rheumatoid arthritis, and psoriasis. They are also useful for inhibiting necangiogenesis or tumour angiogenesis, for inducing an immune response to the treating tumours apatient, or for identifying candidate drugs for treating tumours. The present sequence represents a human TEM or NEM protein of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New purified human transmembrane protein, designated as tumour endocheial marker (TRM) 3, useful for detecting, diagnosing or treating tumours, polycystic kidney disease, diabetic retinopathy, rheumatoid arthritis or psoriasis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; endothelial cell; EC; tumour endothelial cell; TEM; NEM; Tumour endothelial marker; pen; pan-endothelial marker; polycystic kidney disease; psoriasis; diabetic retinopathy; rheumatoid arthritis; tumour anglogenesis; necanglogenesis; immune response; cytostatic; antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABU54442;
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06-FEB-2002;
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Best Local Simi
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18-SEP-1997;
18-SEP-1997;
15-OCT-1997;
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17-OCT-1997;
21-OCT-1997;
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New isolated human genes and polypeptides used in, gastrointestinal ulceration
                                                                                                                WPI; 1999-229533/19.
N-PSDB; AAX52255.
                                                                                            Claim
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                                                                                            12; Fig
                                                                                                                                   GENENTECH
                                                                                                                           Goddard A,
                                                                                                                                           97US-0066120.
97US-0066364.
97US-0066772.
97US-0066466.
97US-0066511.
97US-0066511.
                                                                                                                                                                                                                     97US-0063550.
97US-0063564.
97US-0063435.
97US-0063704.
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                                                                                                                                                                                                                                                         97US-0063329.
                                                                                            320pp; English.
                                                                                                                                                                                  0064809.
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                                                                                                                            Gurney
                                                                                                                            P.
                                                                                                                            Pennica D,
                                                                                                                            Wood
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CC AAY13344-403 represent secreted and transmembrane human proteins.

CC The cDNA sequences are obtained from cDNA libraries, prepared from CF fetal lung, fetal kidney, fetal brain, fetal liver and fetal retina. CC The encoded polypeptides have specific uses based on their homology to CK known polypeptides, e.g. PRO211 and PRO217 can be used for disorders CC associated with the preservation and maintenance of gastrointestinal CC mucosa and the repair of acute and chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome, gastrointestinal CC ulceration and congenital microvillus atrophy), skin diseases associated CC with abnormal keratinocyte differentiation (e.g. psoriasis, epithelial CC cancers such as lung squamous cell carcinoma of the vulva and gliomas), CC potent effects on cell growth and development, diseases related to CC growth or survival of nerve cells including parkinson's disease, CC Alzheimer's disease, ALS, neuropathies or cancer. PRO265 can be used as CC for fibromodulin, e.g. for reducing dermal scarring. PRO264 can be used CC as a target for anti-tumor drugs. PRO533 may be used in the treatment CC of Usher Syndrome or Atrophia areata, PRO269 can be used as an CC therapeutic applications in wound healing and tissue repair, PRO317 can CC be used for treating problems of the kidney, uterus, endometrium, blood CC vessels, or related tissue, e.g. in the heart of genital tract.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 79.7%;
Best Local Similarity 100.0%;
Matches 279; Conservative
20-JAN-1998;
16-APR-1997;
17-APR-1997;
15-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                       CRSP-1; cysteine-rich secreted protein 1; tumour; cancer; leukaemia; tissue repair; wound healing; infection; Parkinson's disease; Alzhelmer's disease; Huntington's chorea; multiple sclerosis; amyotrophic lateral sclerosis; pontine myelinolysis; human immunodeficiency associated myelopathy; bulbar palsy; spinal muscular atrophy; primary lateral sclerosis; poliomyelitis; Fazio-Londe syndrome; Charcot-Marie-Tooth disease; therapy; diagnosis; drug screening; human; CRISPY-1; TANGO 59; signal transduction; cell differentiation; cell proliferation.
                                                                                                                                                                                                                                                                                                                         Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAW73016 standard;
                                                               16-APR-1998;
                                                                                       22-OCT-1998.
                                                                                                               WO9846755-A1
                                                                                                                                                      Domain
                                                                                                                                                                            Peptide
                                                                                                                                                                                                      Domain
                                                                                                                                                                                                                                                           Protein
                                                                                                                                                                                                                                                                                                             Peptide
                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human cysteine-rich
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAW73016;
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98US-0009802.
97US-0843704.
97US-0842898.
98US-0071589.
                                                               98WO-US07894
                                                                                                                                                     /note= ":
201..284
                                                                                                                                                                                                                                                           24..350
                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                          /note=
                                                                                                                                                                               196..200
                                                                                                                                                                                                         147..195
                                                                                                                                                                                                                    note= "putative mature protein spans 20-350, 22-350 or 24-350"
                                                                                                                                                                                                                                             /label= Mat_protein
                                                                                                                                                                                                                                                                      /note= "putative signal peptide
1-19, 1-21 or 1-23"
                                                                                                                                                                                                                                                                                                /label= Sig_peptide
                                                                                                                                                                                          note= "cysteine-rich domain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           secreted
                                                                                                                                        "cysteine-rich domain'
                                                                                                                                                                "spacer'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      350
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Pred. No. 4.5e-263;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein CRSP-1.
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                                                                                                                                                                                                                                                                                                                              manner, with highest expression in brain, heart and spinal cord.
CCRSP-1, CRSP-2, CRSP-3 and CRSP-4 (see AAW7016-19) are claimed, and
care characterised by the presence of cysteine-rich domains that are
composed by spacer regions. CRSPs have at least 1 of the following
activities: (1) modulation of cellular signal transduction, either
cc in vitro or in vivo (e.g. antagonism of the activity of members of
the wnt family of secreted proteins or suppression of wnt-dependent
cc signal transduction), (ii) regulation of communication between cells
(e.g. regulation of expression of genes whose expression is modulated by
cc binding of CRSP (e.g. CRSP-1) to a receptor; (iv) regulation of gene
cellular proliferation of cellular proliferation, either in vitro or in vivo (e.g. induction of cellular proliferation of cell differentiation);
(c) regulation of cellular proliferation of cell differentiation;
(v) regulation of silvolved in development or differentiation);
(v) regulation of solved proliferation of cell differentiated
composition of silvolved in development or intibition of
cellular proliferation of cillular proliferation of cell differentiated
composition of glioblastoma formation); (vi) formation and
cell issues in vertebrates, both adult and embryonic (e.g. induction of
composition of silvolved in arrangements of differentiated
composition of cell survival; (ix) regulating cell
composition of cell survival; (ix) regulating cell death,
composition of cell death,
cof head formation during cell survival; (ix) regulating cell death
                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated cysteine-rich secreted proteins - used to develop products for treating, e.g. hyperproliferative disorders, cancers, wounds, infectious lesions, degenerative lesions or demyelating
                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                secreted protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 8; Page 92-93; 142pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MILL-) MILLENNIUM BIOTHERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1998-568730/48
DB; AAV07906.
    121
                                        61
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                                                                                                                                                                                                                         Similarity
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    NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR
                                                                               TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITN
                                                                                                                      MORLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
                                                                                                                                                          MORLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMED
                                        TOHKLRSAVEEMEAEEAAAKASSEVNLANLPPSYHNETNTDTNVGNNTIHVHREIHKITN
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                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                       66.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CRSP-1 is expressed in a tissue-specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mence of novel human cysteine-rich, as deduced from a full-length cDNA
                                                                                                                                                                                                 Score 233; DB 19;
Pred. No. 2.9e-218;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                       th disease).
and drug sc
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RESULT 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; Dickkopf-3 protein; Dkk-3 protein; Soggy protein; optic of cysteine-rich secreted protein; glaucoma; conjunctivitis; brain Alzheimer's disease; epilepsy; amnesia; inflammation; pulmonary skeletal muscle disorder; Goodpasture's syndrome; cardiovascular disorder; hyperproliferative disorder; cancer.
                                                                                                            modulating agents in regulating c
treating disorders characterized
Dkk, e.g. Alzheimer's,
                                                                                                                       Human Dickkopf (hDkk) and Soggy nucleic acids and proteins, useful as modulating agents in regulating cellular processes and particularly fitreating disorders characterized by aberrant expression or activity o
                                                                                                                                                                                                                                                   05-MAR-1999;
                                                                                                                                                                                                                                                                       03-MAR-2000;
                                                                                                                                                                                                                                                                                              08-SEP-2000.
                                                                                                                                                                                                                                                                                                                                                     Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB08874
                                                                                       Claim
                                                                                                                                                                     N-PSDB;
                                                                                                                                                                                                    McCarthy
                                                                                                                                                                                                                                                                                                                    WO200052047-A2
                                                                                                                                                                                                                                                                                                                                                                           Domain
                                                                                                                                                                                                                                                                                                                                                                                                Peptide
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                                                                                                                                                                                                                           (MILL-)
                                                                                                                                                                                                                                                                                                                                                                                                                       Peptide
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                                                                                                                                                                  2000-579276/54.
DB; AAA75128, AA
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••
                                                                                                                                                                                                                           MILLENNIUM PHARM INC
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                                                                                       Fig 1A-B; 208pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard; Protein; 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CHDPASRLLDLITWELEPDGALDRCPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                   9908-0263022
                                                                                                                                                                                                                                                                                                                                                    /note= "cysteine-rich domain"
                                                                                                                                                                                                                                                                                                                                                                                                 25..350
                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                            /note=
                                                                                                                                                                                                                                                                                                                                                                                      note=
                                                                                                                                                                     AAA75129
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                                                                                                                                                                                                                                                                                                                                                                                                          "signal sequence
                                                                                                                                                                                                                                                                                                                                                                                     "mature protein'
                                                                                                                                                                                                                                                                                                                                         "cysteine-rich domain"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disorder;
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The present sequence represents a human Dickkopf (Dkk)-3 protein. The specification also describes Soggy (Dkk-related) sequences. Dkk is a cysteine-rich secreted protein. The Dkk nucleic acids and proteins are useful as modulating agents in regulating cellular processes. They are particularly useful in treating subjects having a disorder characterized by aberrant expression or activity of Dkk such as optic disorders

conjunctivitis),

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RESULT 26
AAW73021
ID AAW73
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Best Local S
Matches 333
                     20-JAN-1998;
16-APR-1997;
17-APR-1997;
15-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           epilepsy, amnesia), inflammation, skeletal muscle disorders, pulmonary disorders (Goodpasture's syndrome), cardiovascular disorders, and hyperproliferative disorders (cancer). The Dkk proteins and nucleic acids may also be used for research purposes, such as for chromosome mapping, tissue typing and in screening assays to identify modulators.
                                                                                                                                                                                                            Key
Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                Domain
                                                                                                                                                                                                                                                                                                                                                                                           AAW73021 standard;
                                                                                                      22-OCT-1998
                                                                                                                             WO9846755-A1
                                                                                                                                                                                      Region
                                                                                                                                                                                                                                               gs sp
                                                                                                                                                                                                                                                                                                                     Mouse
                                                                                                                                                                                                                                                                        mouse.
                                                                                                                                                                                                                                                                                   signal
                                                                                                                                                                                                                                                                                               CRSP-1;
                                                                                                                                                                                                                                                                                                                                             18-JAN-1999
(MILL-)
                                                                               16-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           333;
                                                                                                                                                                                                                                                                                                                    cysteine-rich secreted protein-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                  ; cysteine-rich transduction; (
MILLENNIUM BIOTHERAPEUTICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DSECCGDQLCVWGHCTKWATRGSNGTICDNQRDCQPGLCCAPQRGLLFPVCTPLPVEGEL
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                                                                                                                                                                                                                                                                                                                                            (first entry)
                     98US-0009802.
97US-0843704.
97US-0842898.
98US-0071589.
                                                                               98WO-US07894
                                                                                                                                                  /note= "0
196..207
/note= "s
208..284
/note= "0
                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                           Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    66.6%;
                                                                                                                                                                                                                                                                                   cell differentiation; cell p
                                                                                                                                                    "cystine-rich
                                                                                                                                                                          "spacer'
                                                                                                                                                                                                "cysteine-rich
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 233; DB Pred. No. 2.9e 0; Mismatches
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                                                                                                                                                     domain"
                                                                                                                                                                                                    domain"
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2.9e-218;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            334
                                                                                                                                                                                                                                                                                  proliferation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 350;
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RESULT 27
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               secreted protein 1 (CRSP-1), as deduced from an isolated cDNA clone (see AAV07911). The invention relates to novel human CRSP-1, -2, -3 and -4 nucleic acid sequences (see AAV07906-09) and polypeptides (see AAW73016-19) that are suggested to be involved in signal transduction and cellular differentiation. These can be used in diagnostic, screening and therapeutic methods of the invention e.g. for treating hyperproliferative disorders, cancers, wounds, infectious or degenerative lesions and demyelating diseases, and in drug
                                                                                                                                                                                                                                                          Mus
                                                                                                                                                                                                                                                                                             cysteine-rich secreted protein; glaucoma; conjunctivitis; brain Alzheimer's disease; epilepsy; amnesia; inflammation; pulmonary skeletal muscle disorder; Goodpasture's syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated cysteine-rich secreted proteins - used to develop products for treating, e.g. hyperproliferative disorders, cancers, wounds, infectious lesions, degenerative lesions or demyelating
                                                                      N-PSDB;
                                                                                                        McCarthy
                                                                                                                                                          05-MAR-1999;
                                                                                                                                                                                03-MAR-2000;
                                                                                                                                                                                                                                  WO200052047-A2
                                                                                                                                                                                                                                                                                 cardiovascular disorder, hyperproliferative disorder;
                                                                                                                                                                                                                                                                                                                                  Human;
                                                                                                                                                                                                                                                                                                                                                         A murine Dickkopf (Dkk)-3 protein.
                                                                                                                                                                                                                                                                                                                                                                                  15-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                           AAB08879;
                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB08879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure;
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                                                                                                                                                                                                          08-SEP-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       screening
                                                                                                                                 (MILL-) MILLENNIUM PHARM INC
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                                                                    2000-579276/54.
DB; AAA75137.
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DB; AAV07911.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              41;
                                                                                                                                                                                                                                                                                                                                 Dickkopf-3 protein; Dkk-3 protein; soggy protein; optic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SA;
                                                                                                                                                                                                                                                                                                                                                                                                                                  standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                YPOEEATLNEMFREVEELMEDTQHKLRSAVEEMEAEEAAAK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               349 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 114-115; 142pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                  2000WO-US05452
                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                         99US-0263022.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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3e-31;
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                                                                                                                                                                                                                                                                                 cancer.
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                                                                                                                                                                                                                                                                                                           disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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Human Dickkopf (hDkk) and Soggy nucleic acids and proteins, modulating agents in regulating cellular processes and partitreating disorders characterized by aberrant expression or a Dkk, e.g. Alzheimer's,

particularly n or activity

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RESULT 28
AAY92069
ID 9AAY92
AC AAY92
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Best Local S
Matches 41
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The murine DKR-3 open reading frame has homology to human rig-like 7-1 mRNA and to chicken lens fiber protein cliest 4 gene.

DKR-1 is a human ortholog of dkk-1 (dickkopf-1), a novel gene identified in Xenopus and mouse, purportedly an antagonist of wnt-8 signaling.

DKR-2, -3 and -4 are each related to DKR-1 by their cysteine pattern.

DKR-1 is also involved in morphogenesis in the developing embryo, and therefore a growth factor, by inference DKR polypeptides are also growth factors. The DKR polypeptides are useful for treating cancer, e.g. mammary tumors, stem cell tumors, or other cancers in which the wnt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DKR-3; human rig-like 7-1 mRNA; chicken lens fiber protein; clfest dkk-1; dickkopf-1; antagonist; wnt-8 signaling; morphogenesis; growth factor; cytostatic; sonic hedgehog; tissue differentiation.
                                                                                                                                                                                                                                                                                                                                                                                                                                 New nucleic acid molecule encoding polypeptide, useful in treatment of stem cell tumors
                                                                                                                                                                                                                                                                                                  AAY92069-75 are novel mouse and human DKR polypeptides.
                                                                                                                                                                                                                                                                                                                                                                 Claim 18; Page 127-128; 143pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-PSDB; AAA08838
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (AMGE-) AMGEN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000-293153/25.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sullivan JK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fig
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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Pred. No.
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SAVEEMEAEEAAAK 80

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RESULT 29
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Best Local
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Best Local
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                                                                        The sequence represents a schizophrenia-associated protein isoform (SPI) These protein isoforms, e.g. SPI-206, SPI-238 and SPI-240 are detectable in cerebrospinal fluid, serum or plasma and are useful markers of schizophrenia. The sequences can be used for treatment and diagnosis of schizophrenia, screening, prognosis, monitoring the results of therapy, identifying patients most likely to respond to a particular therapy and identification of new targets for drug treatment. SPI DNA is useful as a nucleic acid probe to detect the presence of nucleic acids or SPIs.
                                                   Sequence
                                                                                                                                                                                                                                New schizophrenia associated protein isoforms and encoding nuc
molecules, useful for treatment, diagnosis and prognosis of
schizophrenia and screening for potential drugs for treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Schizophrenia-associated protein isoform; SPI; SPI-206; SPI-238; SPI-240; neuroleptic; gene therapy; cerebrospinal fluid; serum; plasma.
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                                                                                                                                                                                            Disclosure; Page 29; 148pp; English.
                                                                                                                                                                                                                     drug targets
                                                                                                                                                                                                                                                                                                            Herath
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28-NOV-2000; 2000US-0750395.
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                                                                                                                                                                                                                                                                                                           HMAC,
    14;
                Similarity
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     Conservative
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               100.0%;
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Pred. No.
               Score 14;
Pred. No.
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DB 22;
5. 3.4e-06;
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                           Length 14;
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detectable
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AAU15121
ID AAU
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RESULT 31
ABB56096
ID ABB56
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                                                                                                                                                                                                                                                                                                    The invention relates to methods and compositions for screening, Cd diagnosis and prognosis of Schizophrenia. The method involves detecting the presence of Schizophrenia (SCH) Associated Features (SFS) and SCH Associated Protein Isoforms (SPIS) in samples, e.g. by electrophoresis, cimmunossay or hybridisation assay, for diagnosing and monitoring SCH, studying the effectiveness of treatments and for identifying potential therapeutic agents. The method is used for (1) screening or diagnosis of SCH, and the relative abundance of at least 1 chosen feature correlates with the presence or absence of SCH; and (2) monitoring the effect of therapy administered to a subject with SCH and the relative abundance of at least 1 chosen feature which correlates with the severity of SCH. The expression and activity of the SFS, SPIS and related molecules (e.g. secondary messengers) are studied to diagnose SCH, monitor the progress of the disorder and the effectiveness of treatment and as treatment of SCH. The paucity of detectable neuralgic defects capets to identify and produce potential therapeutic agents for the treatment of SCH. The paucity of detectable neuralgic defects and clasuragets, where manifestations of anatomical and biochemical changes have been identified in many cases. Consequently the identification and consorders, where manifestations of anatomical and biochemical changes have been identified in many cases. Consequently the identification and consorders, AAU15114-AAU15762 represent the amino acid sequences of schizophrenia-associated isoforms used in the method of the invention.
                                                                                                                                                                                        Matches
                                                                                                                                                                                                        Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Diagnosing and monitoring Schizophrenia by detecting the presence of Schizophrenia Associated Fratures and Schizophrenia Associated Protein Isoforms in samples of cerebrospinal fluid -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-502868/55
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28-NOV-2000; 2000US-0750395
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Schizophrenia-associated isoform peptide
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                                                                                                                                                                                                                                                                     Sequence
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                                                                                                                                            67 SAVEEMEAEEAAAK 80
                                                                                                                                                                                      14;
                                                                                                                                                                                                          Similarity
                                                                                                     SAVEEMEAEEAAAK 14
                                                                                                                                                                                                                                                                        14 AA;
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100.0%;
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0; Mismatches
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3.4e-06;
thes 0;
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ABB56096 standard; Peptide; 12 AA

Vascular Dementia; VD; VD-associated protein isoform; VPI; screening; diagnosis; prognosis; gene therapy.

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RESULT 32
ABB56097
ID ABB56
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AC ABB56
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AC ABB56
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VX
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Vascu
KW Vascu
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-MAR-2000; 2000GB-0006285.
24-NOV-2000; 2000GB-0028734.
28-NOV-2000; 2000US-0724391.
                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Screening, diagnosis or prognosis of vascular dementia (VD), useful for determining stage of VD and monitoring the effect of VD therapy, comprises analysing body fluid by 2-dimensional electrophoresis for features correlated with VD -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Herath HMAC,
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                                            Vascular dementia-associated protein isoform (VPI) 297
                                                                                                        ABB56097;
                                                                                                                                        ABB56097 standard; Peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 6; Page 36; 151pp; English.
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                                                                            15-FEB-2002
                                                                                                                                                                                                                                                   53 EVEELMEDTOHK 64
                                                                                                                                                                                                                                                                                 l Similarity
12; Conserv
                                                                                                                                                                                                                     EVEELMEDTQHK 12
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100.0%; Pr
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Pred. No.
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RESULT 33
ABBSC342
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AC ABBSCX
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
                                                                                                                                                                                                        Human; neuroprotective; nootropic; gene therapy; vaccine; Alzheimer's disease-Associated Feature; Alzheimer's Disease-Associated Fortein Isoform; API; tryptic Expression Reference Protein Isoform; ERPI; proteolysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Screening, diagnosis or prognosis of vascular dementia (VD), useful determining stage of VD and monitoring the effect of VD therapy, comprises analysing body fluid by 2-dimensional electrophoresis for features correlated with VD -
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24-NOV-2000; 2000GB-0028734.
28-NOV-2000; 2000US-0724391.
                                    11-OCT-2001
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                                                                                         WO200175454-A2
                                                                                                                                                                                                                                                                                                                                                  Human API-121 tryptic digest peptide #2
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Pred. No.
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Best Local S
Matches 12
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                                                                  15-MAR-2000; 2000GB-0006285.
24-NOV-2000; 2000GB-0028734.
28-NOV-2000; 2000US-0724391.
                                                                                                                                                                                                                                                                                   ABB56098;
                                                                                                                                                                                                                                                                                                        ABB56098 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Screening for Alzheimer's disease in a mammal, by two-dimensional array of a feature whose relative with disease, and comparing with abundance of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-639384/73.
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28-NOV-2000; 2000US-253647P.
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                      Herath HMAC,
                                                                                                             14-MAR-2001; 2001WO-GB01106
                                                                                                                                                          WO200169261-A2
                                                                                                                                                                                                    diagnosis; prognosis; gene
                                                                                                                                                                                                                  Vascular Dementia; VD; VD-associated
                                                                                                                                                                                                                                      Vascular dementia-associated
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12; Conservative (
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Rohlff C,
R, White F,
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                        Parekh
                                             GLYCOSCIENCES UK LTD
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                        RB,
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                        Rohlff C;
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ches 0;
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Sunderland PT;
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abundance correlate
feature in samples
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WPI; 2001-557937/62

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RESULT 35
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24-FEB-2000; 2000GB-0006415.
15-MAR-2000; 2000GB-0006285.
24-NOV-2000; 2000GB-0028734.
28-NOV-2000; 2000US-0724391.
08-DEC-2000; 2000US-0724391.
12-DEC-2000; 2000US-0750395.
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                       Diagnosing and monitoring Schizophrenia by detecting the presence of Schizophrenia Associated Features and Schizophrenia Associated Protein
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                                                                                                                                                                                              Parekh
                                                                                                                                                                                                                                                           GLYCOSCIENCES
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cerebrospinal fluid

Townsend RR,

Z F

Friedman DL, Herath HMAC, Rohlff C, Silber BM, Sti , White F, Williams SA;

Stiger TR,

Kimmel LH, Parek er TR, Sunderland

Parekh

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This invention describes a novel method for detecting the presence of consequents associated features (SFB) and schizophrenia associated protein isoforms (SFBs) in samples, e.g. by electrophrenia associated correction isoforms (SFBs) in samples, e.g. by electrophrenia, immunoassay or hybridisation assay, for diagnosing and monitoring schizophrenia, consequents agents. The products of the invention have neuroleptic activity and can be used in vaccines or for gene therapy. The method (I) consequents and can be used in vaccines or for gene therapy. The method (I) consequents of schizophrenia and the relative correlates with the presence or absence of schizophrenia and for monitoring the effect of therapy candinistered to a subject with schizophrenia and the relative abundance of at least I chosen feature correlates with the severity of consequents. The expression and activity of the SFB, SFIs and related confecules (e.g. secondary messengers) are studied to diagnose and related confeculation, monitor the progress of the disorder and the effectiveness of treatment and as targets to identify and produce potential therapeutic agents for the treatment of schizophrenia. The paucity of detectable neuralgic defects distinguishes neuropsychiatric disorders such as schizophrenia for meurological disorders, where manifestations of schizophrenia changes have been identified in many cases. Consequently the identification and characterisation of cellular and/or molecular causative defects and neuropathies are necessary for improved treatment of neuropsychiatric disorders. This sequence represents a consequently the identification and characterisation of cellular and/or improved treatment of neuropsychiatric disorders. This sequence represents a consequence in the method of the invention.
XX PPIII
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Best Local Similarity
Matches 10; Conserv
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28-NOV-2000; 2000US-253647P.
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                                                                                           OXFORD GLYCOSCIENCES UK LTD PFIZER INC.
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RESULT 37
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                                                                                                                        Durham KL, I
Potter DM, I
Townsend RR,
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                                               Screening for Alzheimer's disease in a mammal, by two-dimensional array of a feature whose relative with disease, and comparing with abundance of the
                                                                                                                                                                                                                                                                                                                                                Human; neuroprotective; nootropic; gene therapy; vaccine; Alzheimer's disease; Alzheimer's Disease-Associated Feature; Alzheimer's Disease-Associated Protein Isoform; API; tryptic Expression Reference Protein Isoform; ERPI; proteolysis.
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             Example; Page
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28-NOV-2000;
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                                                                                                                        Friedman DI
Rohlff C,
R, White F,
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2000US-253647P
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           162pp; English
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                                                                                                                        DL, Herath HMAC, Kimmel, Silber BM, Stiger TR, F, Williams SA;
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Matches 10
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                                                                                                                                                                                                                            Durham KL,
Potter DM,
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28-NOV-2000; 2000US-253647P.
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larity 100.0%;
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The invention relates to methods for the screening, diagnosis and prognosis of Alzheimer's disease. The methods involve the detection of Alzheimer's Disease-Associated Features (AFS) and Alzheimer's Disease-Associated Features (AFS) in cerebrospinal fluid, serum or plasma. The abundance of the AFS and APIs is then normalised to an Expression Reference Protein Isoform (ERFI) in order to determine whether a patient is suffering from, or has a predisposition to, Alzheimer's Disease. The relative abundance of the AFS and APIs correlates with the severity of Alzheimer's Disease.

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                                                                                                                                                   The present invention relates to the identification of depression associated protein isoforms (DPIs), particularly the tryptic digest peptides of these proteins. Some of the DPIs (ANU28040-ANU28625) C described are decreased in the cerebrospinal fluid (CSF) of BAD (Dipolar affective disorder) subjects, whilst other DPIs (Dipolar affective disorder) subjects, whilst other DPIs (AAU28626-ANU2887) are increased in BAD subjects. Also described are peptide sequences identified from DPI-45 and DPI-213 and the nucleic acid sequence they are encoded by. The sequences of the invention are useful for clinical screening, diagnosis, prognosis, therapy and prophylaxis of neuropsychiatric disorders, prognosis, known as bipolar mood disorders, BP), maniac-depressive illnesses, attention deficit disorders, schizoaffective disorders, and unipolar affective disorders. The present sequence represents one of the DPI tryptic digest peptides of the present invention.
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Best Local Similarity
Matches 10; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel nucleic acid encoding a protein associated with bipolar affective disorder, which is used for diagnosis, prophylaxis and therapy of neuropsychiatric disorders, such as bipolar affective disorder -
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08-DEC-2000; 2000GB-0030050.
12-DEC-2000; 2000US-0254830.
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                                                                                                           Sequence
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                                                                                                                                                                                                                                                                                              The present invention relates to the identification of depression associated protein isoforms (DPIs), particularly the tryptic digest peptides of these proteins. Some of the DPIs (AAUZ8404-AAUZ8625) described are decreased in the cerebrospinal fluid (CSF) of BAD
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08-DEC-2000; 2000GB-0030050.
12-DEC-2000; 2000US-0254830.
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                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 33; 153pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-570626/64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Herath
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
                            293 рордепцирк 302
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                                                                          Similarity
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 DODGEILLPR
                                                                                                                   10 AA;
                                                          Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Parekh
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                                                                          100.0%;
                                                                                      2.9%;
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                                                          0,
                                                                        Score 10;
Pred. No.
                                                            Mismatches
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                                                                        DB 22;
0.02;
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                                                            0;
                                                                                      Length 10;
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                                                            Indels
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                                                                                                                                                                                                          prognosis,
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RESULT 41
AAU28566
ID AAU28566 standard, Peptide;

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RESULT 42
AAU24776
ID AAU24
XX AAU24
XX AAU24
XX IB-DF
DT 18-DF
XX Schi:
XX Schi:
XX Schi:
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                                                                                                                                                                                                                                                    The present invention relates to the identification of depression associated protein isoforms (DPIs), particularly the tryptic digest peptides of these proteins. Some of the DPIs (ANUSAGA-ANUSAGES) are described are decreased in the cerebrospinal fluid (CSF) of BAD (Diplar affective disorder) subjects, whilst other DPIs (ANUSAGES)-ANUSAGES) are increased in BAD subjects. Also described are peptide sequences identified from DPI-45 and DPI-213 and the nucleic acid sequence they are encoded by. The sequences of the nucleic acid sequence they are encoded by. The sequences, prognosis, therapy and prophylaxis of neuropsychiatric disorders e.g. BAD (also known as bipolar mood disorders, BP), maniac-depressive illnessee, attention deficit disorders, schizoaffective disorders, and unipolar affective disorders. The present sequence represents one of the DPI tryptic digest peptides of the present invention.
                                                                                                                                                                                         Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel nucleic acid encoding a protein associated with bipolar affective disorder, which is used for diagnosis, prophylaxis and therapy of neuropsychiatric disorders, such as bipolar affective disorder -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; depression associated protein isoform; tryptic digest peptide; DPI; cerebrospinal fluid; CSF; BAD; bipolar affective disorder; neuropsychiatric disorder; bipolar mod disorder; neuroleptic; maniac-depressive illness; schizoaffective disorder.
   Schizophrenia-associated
                      Schizophrenia-Associated Protein Isoform (SPI) peptide #5.
                                                                    AAU24776
                                                                                        AAU24776 standard; Peptide; 10 AA
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08-DEC-2000; 2000GB-0030050.
12-DEC-2000; 2000US-0254830.
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                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 34; 153pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Herath
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DPI tryptic digest peptide
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                                               18-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (OXFO-) OXFORD GLYCOSCIENCES UK LTD
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                                                                                                                                                                    293 DODGEILLPR
                                                                                                                                               1 DQDGEILLPR 10
                                                                                                                                                                                                    Similarity
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                                                                                                                                                                                          Conservative
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                                              (first
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                                                                                                                                                                                                    2.9%;
100.0%;
   protein isoform;
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                                                                                                                                                                                                    Score 10;
Pred. No.
                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                    DB 22;
0.02;
                                                                                                                                                                                         0,
   SPI-206; SPI-238;
                                                                                                                                                                                                             Length 10;
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RESULT 43
AAU25210
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Best Local S
Matches 10
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                                                                                                                                                                                                                                                                                                                  Schizophrenia-associated protein isoform; neuroleptic; gene therapy; cerebrospinal i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       These protein isoforms, e.g. SPI-206, SPI-238 and SPI 240 are detectable in cerebrospinal fluid, serum or plasma and are useful markers of schizophrenia. The sequences can be used for treatment and diagnosis of schizophrenia, screening, prognosis, monitoring the results of therapy identifying patients most likely to respond to a particular therapy and identification of new targets for drug treatment. SPI DNA is useful as a nucleic acid probe to detect the presence of nucleic acids or SPIs.
  Herath HMAC,
                                                                                 24-FEB-2000; 2000GB-0004415
28-NOV-2000; 2000US-0750395
                                                                                                                                                                                                                                                                                                                                                                               Schizophrenia-Associated Protein Isoform (SPI)
                                                                                                                                                                                                                                                                                                                                                                                                                          18-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 neuroleptic; gene therapy; cerebrospinal fluid; serum;
                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                neuroleptic; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAU25210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The sequence represents a schizophrenia-associated protein iso
These protein isoforms, e.g. SPI-206, SPI-238 and SPI-240 are
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28-NOV-2000; 2000US-0750395.
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                                        (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
                                                                                                                                                23-FEB-2001; 2001WO-GB00792
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ilarity 100.0%;
Conservative
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Parekh RB,
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                                                                                                                                                                                                                                                                                                                therapy;
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Rohlff C,
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  Terrett
                                                                                                                                                                                                                                                                                                                ; SPI; SPI-206; SPI-238; SPI-240; fluid; serum; plasma.
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                                                                                                                                                                                                                                                                                                                                                                             peptide
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Tyson
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are detectable
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RESULT 44
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ID AAU25
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The sequence represents a schizophrenia-associated protein isoform (SPI) These protein isoforms, e.g. SPI-206, SPI-238 and SPI-240 are detectable in cerebrospinal fluid, serum or plasma and are useful markers of schizophrenia. The sequences can be used for treatment and diagnosis of schizophrenia, screening, prognosis, monitoring the results of therapy, identifying patients most likely to respond to a particular therapy and
                                                                                                                                             drug
                                                                                                                                                             New schizophrenia associated protein isoforms and encoding nucleic acid molecules, useful for treatment, diagnosis and prognosis of schizophrenia and screening for potential drugs for treatment and new
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                                                                                                               Disclosure; Page 41; 148pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Schizophrenia-associated protein isoform; SPI; SPI-206; SPI-238; SPI-240; neuroleptic; gene therapy; cerebrospinal fluid; serum; plasma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New schizophrenia associated protein isoforms and encoding nucleic acid molecules, useful for treatment, diagnosis and prognosis of schizophrenia and screening for potential drugs for treatment and new
                                                                                                                                                                                                                                WPI;
                                                                                                                                                                                                                                                             Herath HMAC,
                                                                                                                                                                                                                                                                                                                            24-FEB-2000; 2000GB-0004415.
28-NOV-2000; 2000US-0750395.
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These protein isoforms, e.g. SPI-206, SPI-238 and SPI-240 are detectable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 37; 148pp; English
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10; Conserv
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                                                                                                                                                                                                                                                             Parekh
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Pred. No.
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0.02;
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RESULT 45
AAU26074
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                       The invention relates to a preparation comprising an isolated Bipolar CR Affected Disorder (BAD)-Associated Protein Isoform (DPIS). The DPI's are CR used to screen, diagnose or prognose of BAD or unipolar depression, identify a CR subject at risk of developing BAD or unipolar depression, identify a Subject at risk of developing BAD or unipolar depression, or monitor the effect of therapy in a subject. They are also used to screen for or CR identify agents that interact with a DPI. These agents, antibodies CR against the DPIS, and nucleic acids encoding the DPIS are used to treat CR against the DPIS, and nucleic acids encoding the DPIS are used to treat CR tention deficient disorder, a schizoaffective disorder, a bipolar or a unipolar affective disorder. The DPIS are used in proteomics. The CR proteomic approach of using DPIS for screening, diagnosis or prognosis of BAD or unipolar depression overcomes the problems of using gene CR expression analysis, such as not being able to obtain central nervous system (CNS) tissue from a living patient under normal circumstances. The present sequence is a DIP decreased in the CSF (cerebro-spinal CR fluid) of subjects having BAD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-FEB-2000;
08-DEC-2000;
12-DEC-2000;
                                                                                                                                                                                                                                                                                                                                      Preparation for diagnosing or treating bipolar affected disorder (BAD) or unipolar depression, or for screening for modulators, comprises a BAD-associated protein isoform -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             numan; Bipolar Affective Disorder; BAD; Depression-Associated feature; DF; Depression-Associated protein isoform; DPI; Cerebro-spinal fluid; CSF; antidepressant; antimanic; nootropic; tranquiliser; neuroleptic; attention deficient disorder; schizoaffective disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
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                                                                                                                                                                                                                                                                                                          Claim 8; Page 31; 163pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Herath
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                                                                                                                                                              The invention relates to a preparation comprising an isolated Bipolar CC Affected Disorder (BAD) - Associated Protein Isoform (DPIS). The DPI's are used to screen, diagnose or prognose of BAD or unipolar depression, identify a ceffect of therapy in a subject. They are also used to screen for or ceffect of therapy in a subject. They are also used to screen for or identify agents that interact with a DPI. These agents, antibodies against the DPIS, and nucleic acids encoding the DPIS are used to treated or prevent BAD or unipolar depression. Diseases that can be treated are attention deficient disorder, a schizoaffective disorder, a bipolar or a unipolar affective disorder, a schizoaffective disorder, a bipolar or a proteomic approach of using DPIS for screening, diagnosis or prognosis of BAD or unipolar depression overcomes the problems of using gene capteression analysis, such as not being able to obtain central nervous system (CNS) tissue from a living patient under normal circumstances. The present sequence is a DIP decreased in the CSF (cerebro-spinal control of subjects having BAD.
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                                                                Affected Disorder (BAD) Associated Protein Isoform (DPIs). The DPI's are C used to screen, diagnose or prognose of BAD or unipolar depression, determine the stage or severity of BAD or unipolar depression, identify a subject at risk of developing BAD or unipolar depression, or monitor the ceffect of therapy in a subject. They are also used to screen for or cidentify agents that interact with a DPI shees agents, antibodies against the DPIs, and nucleic acids encoding the DPIs are used to treat cor prevent BAD or unipolar depression. Diseases that can be treated are curify a discretive disorder, a schizoaffective disorder, a because the composition deficient disorder, a schizoaffective disorder, a built of the proteomic approach of using DPIs are used in proteomic mipolar affective disorder. The DPIs are used in proteomic of the proteomic approach of using DPIs are used in proteomic or prognosis of C sypression analysis, such as not being able to obtain central nervous gystem (CNS) tissue from a living patient under normal circumstances. The present sequence is a DIP decreased in the CSF (cerebro-spinal CC fluid) of subjects having BAD.
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RESULT 48
AAU15120
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                                                                                                                                                                               The invention relates to methods and compositions for screening, considered prognosis of Schizophrenia. The method involves detecting the presence of Schizophrenia (SCH) Associated Features (SFS) and SCH Associated Protein Isoforms (SPIS) in samples, e.g. by electrophoresis, communoassay or hybridisation assay, for diagnosing and monitoring SCH, communoassay or hybridisation assay, for diagnosing and monitoring SCH, communoassay or hybridisation assay, for diagnosing and monitoring SCH, communoassay or hybridisation assay, for diagnosing and monitoring SCH, communoassay or hybridisation assay, for diagnosing and monitoring SCH, communoassay or hybridisation assay, for diagnosing and monitoring SCH, communoassay or hybridisation assay, for diagnosing and monitoring schizes of SCH and the relative abundance of at least 1 chosen feature which correlates with the severity of SCH. The expression and activity of the SFS, SPIS and related molecules compares of the disorder and the effectiveness of treatment and as acceptable are studied to diagnose SCH, monitor the progress of the disorder and the effectiveness of treatment and as acceptable paracity of detectable neuralgic defects and compared to identify and produce potential therapeutic agents for the treatment of SCH. The paracity of detectable neuralgic defects and disorders, where manifestations of anatomical and biochemical changes have been identified in many cases. Consequently the identification and consorders, Anull S14-ANULS762 represent the amino acid sequences of schizophrenia-associated isoforms used in the method of the invention.
                                                                                          Query Match
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                                                                          Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Diagnosing and monitoring Schizophrenia by detecting the presence of Schizophrenia Associated Protein
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28-NOV-2000; 2000US-0750395
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                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isoforms in samples of cerebrospinal fluid -
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  1 DODGETLLPR 10
                                                                          10;
                                                                                            Similarity
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                                                                        Conservative
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k; Pred. No. 0.0
0; Mismatches
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                                                                                            DB 22;
                                                                                                             Length 10
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RESULT 50 AAU15721

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DODGEILLPR 10

Matches

Indels

0;

Gaps

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293 DODGEILLPR 302

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ARULES 44
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n Similarity 100.0%; E
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                                                                          2.9%;
                                     Score 10; pred. No.
                                     DB 22;
                                                                       Length 10;
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Search completed: February 21, 2004, 01:47:04 Job time : 95 secs
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Matches 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Diagnosing and monitoring Schizophrenia by detecting the presence of Schizophrenia Associated Features and Schizophrenia Associated Protein Isoforms in samples of cerebrospinal fluid -
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28-NOV-2000; 2000US-0750395.
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                                                                                                         293 DODGETLIER 302
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                                                                                                                                            h 2.9%; Score 10; DB 22; Length 10; Similarity 100.0%; Pred. No. 0.02; 10dels 10; Conservative 0; Mismatches 0; Indels
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US-08-460-874A-13
US-08-460-874A-15
US-08-388-883B-15
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                                                                                                                                                                                                             ; ORGANISM: Eucalyptus grandis US-09-325-932A-144
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                                                                                                                                                                                                                                                                                        SOFTWARE: Fa
SEQ ID NO 144
LENGTH: 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Bass, Michael B
APPLICANT: Sullivan, John K
APPLICANT: Theill, Lars E
APPLICANT: Wang, Daguang
TITLE OF INVENTION: NOVEL D
                                                                                                                      Query Match
Best Local Similarity
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Best Local !
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                                                                                                Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 8,
                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: 1022
CURRENT APPLICATION NUMBER: US/09/325,932A
CURRENT FILING DATE: 1999-06-04
CURRENT FILING DATE: 206
CURRENT FILING DATE: 206
SOFTWARE: FASTSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 349
TYPE: PRT
ORGANISM: Mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Flinn, Barry
APPLICANT: Lasham, Annette
TITLE OF INVENTION: Compositions affecting programmed cell
TITLE OF INVENTION: death and their use in the modification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/161,241
CURRENT FILING DATE: 1998-09-25
NUMBER OF SEQ ID NOS: 78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: A-548
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   337 PAAAAAALL 345
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGQRMLCTR 180
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                                                                                             Conservative
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ON: NOVEL DKR POLYPEPTIDES
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100.0%; Pr
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                                                                                          Score 9; DB , ; Pred. No. 0., 0., 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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                                                                                                                      DB 4;
o. 0.49;
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. 1.7e-31;
                                                                                                                                                  Length 109
                                                                                             0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modification of forestry plant devel
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Best Local Similarity
Thes 9; Conserve
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US-09-252-991A-19907
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Patent No. 5
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SEQ ID NO 19907
LENGTH: 398
TYPE: PRT
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GENERAL INFORMATION:
APPLICANT: Marc J.
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APPLICATION NUMBER: US/08/460,874A
FILING DATE: 06-UWN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/936,219
FILING DATE: 27-AUG-1992
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P4128684.7
APPLICATION NUMBER: DE P4128684.7
APPLICATION NUMBER: 33,694
REGISTRATION NUMBER: 33,694
REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 05552-1210-
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                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
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                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
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TITLE OF INVENTION: HCMV-Specific Peptides, Agents Therefor
TITLE OF INVENTION: and the Use Thereof
NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Wieczorek, Leszek
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
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NVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS EVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
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1300 I Street, N.W., Suite 700
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Conservative
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                                                                                                                                                                                                                                                                                                                                                                                      US/08/460,874A
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            05552-1210-04000
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                                   US-08-388-883B-46
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Best Local Similarity 100.0%;
Matches 8; Conservative (
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Patent No. 5
Query Match
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LENGTH: 12 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
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TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO:
                                                                                                                                             TELEPHONE: 202-408-401
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                          FILING MATA:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,305
FILING DATE: 23-FEB-1994
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 07/936,219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/388,883B
ENTITY APPLICATION NUMBER: US/08/388,883B
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                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
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                                                                                                                                                                                                  NAME: Forman, David S.
REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 5552-1210-02000
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                        APPLICATION NUMBER: DE P4128684.7
FILING DATE: 29-AUG-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 07 FILING DATE: 27-AUG-1992 PRIOR APPLICATION DATA:
                                                     TOPOLOGY: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: Finnegan, Henderson, Farabow, ADDRESSEE: Dunner L.L.P. STREET: 1300 I Street, N.W., Suite 700
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                                                   peptide
 2.3%; Score 8;
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 Length 12;
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                                              Query Match
Best Local Similarity
Watches 8; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 2005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, \
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
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PRIOR APPLICATION NUMBER: US 08/388,883

APPLICATE: 13-FEE-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 13-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,305
                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 27-AUG-
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 23-FEB-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Wieczorek, Leszek
APPLICANT: Ziegelmaier, Rober
TITLE OF INVENTION: HCMV-Spec
TITLE OF INVENTION: and the U
                                                                                                                                        TOPOLOGY: 11
                                                                                                                                                                                                                                                                                                                                 FILING DATE: 29-AUG-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: 1300 I SC:
CITY: Washington,
                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 33, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & ADDRESSEE: Dunner L.L.P.
                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 07/936,219
                                                                                                                                                                                                                                                      TELEPHONE:
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                              19 TAPAPAPT 26
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                                                                                                                                                                      amino acid
 TAPAPAPT 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ziegelmaier, Robert
NVENTION: HCMV-Specific Peptides, Agents Therefor
NVENTION: and the Use Thereof
                                                                                                                                                                                                                                          202-408-4400
                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Stuber, Werner
                                                                                                                                                        linear
                                                                                                                                                                                                                                                        202-408-4000
                                                                                                                                          peptide
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                                                                                                                                                                                                                                                                                                                       David S
                                                                             100.0%;
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                                                                              Score 8;
; Pred. No
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                                                                                              Length 12;
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RESULT 8 US-08-935-009A-5

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US-08-460-874A-12
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                               atent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/935,009A
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                             TITLE OF INVENTION: HCMV-Specific Peptides, Agents Therefor TITLE OF INVENTION: and the Use Thereof NUMBER OF SEQUENCES: 49
                                                                                                                                                                                               APPLICANT: Stuber, Werner
APPLICANT: Wieczorek, Leszek
APPLICANT: Ziegelmaier, Robe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION: TELEPHONE: 847-937-6182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
                                                                                                                                CORRESPONDENCE ADDRESS
ZIP: 20005-3315
CMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 847-938-2623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Weinstein, David L
REGISTRATION NUMBER: 28,128
REFERENCE/DOCKET NUMBER: 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                            ADDRESSEE: Finnegan, Henderson, Farabow, ADDRESSEE: Dunner STREET: 1300 I Street, N.W., Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     local Similarity
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5. 6177241
                                                                                                                                                                                                                                                                  12, Application US/08460874A
5. 5744298
                                                                                                                                                                                                                                                                                                                                                                                                 19 TAPAPAPT 26
                                                                                                                                                                                                                                                 INFORMATION:
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IL
                                                            Washington,
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3: No. 6177241e
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1: USE OF PEPTIDES TO IMPROVE

1: SPECIFICITY OF AN ENZYME IMMUNOASSAY FOR

1: THE DETECTION OF HERPESVIRUS SPECIFIC IGN
                                                                                                                                                                                                                                                                                                                                                                                                                                   2.3%; Score 8; DB 3;
100.0%; Pred. No. 0.9;
tive 0; Mismatches
                                                                                                                                                                                                    Robert
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; LENGTH: 31 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-460-874Å-12
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Best Local S
Matches 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 13,
                                                                                                                      COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0,

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/460,874;

FILING DATE: 06-UN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 202-408-4400 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/
APPLICATION NUMBER: US 07/
FILING DATE: 27-AUG-1992
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION UNMBER: DE P41
FILING DATE: 29-AUG-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 29-AUG-1991
ATTORNEY/AGENT INFORMATION:
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                                               CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0:
FILING DATE: 27-AUG-1992
                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: HCMV-Specific Peptides, Agents Therefor TITLE OF INVENTION: and the Use Thereof NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Stuber, Werner
APPLICANT: Wieczorek, Leszek
APPLICANT: Ziegelmaier, Robe
                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Forman, David S.
REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                               CITY: Washington,
                                                                                                                                                                                                                                                                                                                                                     STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
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APPLICATION NUMBER:
               CLASSIFICATION: 435
IOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INFORMATION:
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Similarity 100.0%; Pred. No
8; Conservative 0; Misman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Application US/08460874A
                                                                                                                                                                                                                                                                                                                                               E: Dunner
1300 I Street, N.W., Suite 700
                                                                                                                                                                                                                                                                                               USA
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PC-DOS/MS-DOS
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                                                                   US 07/936,219
                                                                                                                                                                                Release #1.0, Version #1.25
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DE P4128684.7
                                                                                                                                          US/08/460,874A
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Pred. No. 1.4;
Mismatches
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US-08-388-883B-12
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MOLECULE TYPE: peptide
US-08-460-874A-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 2.3%; Score 8; DB 1; Best Local Similarity 100.0%; Pred. No. 1.4; Matches 8; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: ST BER,
APPLICANT: WIECZON
APPLICANT: ZIEGELM
                                                                                                                                                        FILING DATE: 23-FEB-1994

PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 07/936,219

FILING DATE: 27-AUG-1992

PRIOR APPLICATION DATA:
APPLICATION UNMBER: DE P4128684.7

FILING DATE: 29-AUG-1991

ATTORNEY/AGENT INFORMATION:
NAME: ECTMEN DAYA S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 13:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tent No.
                                  TELEFAX: 202-408-4400 INFORMATION FOR SEQ ID NO:
                                                                                     NAME: Forman, David S.
RECISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 5552-1210-02000
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/388,8831
FILING DATE: 13-FEB-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,305
SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
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TTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TLE OF INVENTION: HCMV-Specific Peptides, Agents Therefor TLE OF INVENTION: and the Use Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Washington,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 05
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ZIEGELMAIER, Robe
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                                                                         202-408-4000
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13-FEB-1995
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US-08-388-883B-13
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Best Local Similarity 100.
Matches 8; Conservative
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                              Matches
                                                        Query Match
                                                                                                                                                                       TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 23-FEB-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC comparible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/388,883B
FILING DATE: 13-FEB-1995
                                                                                                                                                                                                                 NAME: FORMAIN, DAVID S.
REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 55!
TELECOMMUNICATION INFORMATION:
                                                                                                                                             SEQUENCE CHARACTERISTICS LENGTH: 31 amino acids
                                                                                                                                                                                                                                                                                                                                               FILING DATE: 23-FEB-PRIOR APPLICATION NUMBER: 1
                                                                                                    TOPOLOGY: 11
                                                                                                                                                                                                                                                                           FILING DATE: 29-AUG-1991
ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PLICANT:
                                              Local
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                                Conservative
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                                                                                                  peptide
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100.0%; Pred. No.
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L00.0%; Pred. No.
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US-08-462-211A-13
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Patent No. 6143491
                                                                                         Sequence 13, Appli
Patent No. 6143493
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, V
CURRENT APPLICATION DATA:
                                                                           GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US 0:
FILING DATE: 27-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE PA
FILING DATE: 29-AUG-1991
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PRIOR APPLICATION NUMBER: US 07/936,219
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PRIOR APPLICATION NUMBER: US 08/300,305
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APPLICATION NUMBER: US 08/388,883
     APPLICANT: VAPPLICANT: VITLE OF INVI
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ITLE OF INVENTION: HCMV-Specific Peptides, Agents Therefor
ITLE OF INVENTION: and the Use Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Forman, David REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
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                                                                                                                                                                                                                                                                                          Local
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TOPOLOGY: linear
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8; Conserv
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ilarity 100.0%;
Conservative
Wieczorek, Leszek
Ziegelmaier, Robert
VENTION: HCMV-Specific Peptides, Agents Therefor
                                                          Stuber, Werner
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29-AUG-1991
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RESULT 15
US-08-460-874A-15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US
FILING DATE: 27-AUG-19
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DI
FILING DATE: 29-AUG-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
COMPUTER: IBM FC COMPUTER: OF COMPUTER: PC-DOS/MS-DOS
SOPTWARE: PatentIn Release #1.0.
CURRENT APPLICATION DATA:
                                                                                                                                              APPLICANT: Stuber, Werner
APPLICANT: Wicczorek, Leszek
APPLICANT: Ziegelmaier, Robert
TITLE OF INVENTION: HCMV-Specific Peptides,
TITLE OF INVENTION: and the Use Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
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FILING DATE: 23-FEB-
PRIOR APPLICATION DATA;
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PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION: TELEPHONE: 202-408-4000
                                                                                                                       NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
             STREET: 1300 I Str
CITY: Washington,
STATE: D.C.
COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Forman, David REGISTRATION NUMBER:
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                                                                                    ADDRESSEE:
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Y: USA
20005-3315
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1300 I Street,
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29-AUG-1991
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27-AUG-1992
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100.0%; Pred. No. 1.
vative 0; Mismatches
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                                                                     N.W., Suite 700
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US-08-460-874A-15
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Matches 8; Conserv
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INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tent No.
                                                                                       ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/388,883B
FILING DATE: 13-FEB-1995
FILING DATE: 13-FEB-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/936,219
FILING DATE: 27-AUG-1992
 TOPOLOGY: 13
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P4128684.7
FILING DATE: 29-AUG-1991
ATTORNEY/AGENT INFORMATION:
ANAME: CETTE DELIGION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Patentin Recurrent APPLICATION DATA APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                        APPLICANT: ZIEGELMAIER, KODERT TITLE OF INVENTION: HCMV-Specific Peptides, Agents Therefor TITLE OF INVENTION: and the Use Thereof SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                               STREET: 1300 I St.
CITY: Washington,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 05
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                             NDDRESSEE: Finnegan, Henderson, Farabow, STREETS: 1300 I Street, N.W., Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ELEPHONE:
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ISTRATION NUMBER: :
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5859185
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US 07/936,219
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Pred. No.
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o. 1.4;
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US-08-462-211A-15
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Best Local
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MEDIUM TYPE: Floppy disk
COMPUTER: IRW PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,211A
FILING DATE: 05-UN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 27-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P
FILING DATE: 29-AUG-1991
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                                                                                                                          APPLICATION NUMBER: US 07 FILING DATE: 27-AUG-1992 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/388,883
FILING DATE: 13-FEB-1995
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                                                                       APPLICATION NUMBER: DE P4128684.7 FILING DATE: 29-AUG-1991 ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER: US 08/300,305
FILING DATE: 23-FEB-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Stuber, Werner APPLICANT: Wieczorek, Leszek APPLICANT: Ziegelmaier, RobeTITLE OF INVENTION: HCMV-SpeTITLE OF INVENTION: and the
ELECOMMUNICATION INFORMATION:
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                    REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 55
                                    NAME: Forman, David S. REGISTRATION NUMBER: 3
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REGISTRATION NUMBER:
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NENTION: HCMV-Specific Peptides, Agents Therefor
NENTION: and the Use Thereof
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                      5552.1210-03000
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RESULT 18
US-08-388-883B-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
                                                                                                                                                         TELEFAX: 202-408-4400 INFORMATION FOR SEQ ID NO: 1: SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/936,219
FILING DATE: 27-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P4128684.7
FILING DATE: 29-AUG-1991
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 55
TELECOMMUNICATION INFORMATION:
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                                                                  TOPOLOGY: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ITLE OF INVENTION: HCMV-Specific Peptides, Agents Therefor ITLE OF INVENTION: and the Use Thereof
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Local Similarity 100.0%; I
les 8; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION: 435
AIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/300,305
FILING DATE: 23-FEB-1994
                                                                                                LENGTH: 40 amino acids
TYPE: amino acid
STRANDENESS: single
                                                                                                                                                                                                                                                                 NAME: Forman, David REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/01
FILING DATE: 13-FEB-1995
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OTHER INFORMATION:
                              VAME/KEY:
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                                                                                 SS: single
linear
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                              Region
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/note= "Some or all amino acids
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Pred. No. 1.4;
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US-08-460-874A-17
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                                                                           US-08-460-874A-17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 2.3%; Sc. Best Local Similarity 100.0%; P
Query Match
Best Local Similarity 100.0%; Pred. Note to the Matches 8; Conservative 0; Mismail
                                                                                                                                                                              TELEFAX: 202-408-4400 INFORMATION FOR SEQ ID NO:
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MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: IBM PC pc.pc/MS-Dos
                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
                                                                                                                                                                                           REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 05
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P-
FILING DATE: 29-AUG-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,874A
FILING DATE: 06-JUN-1995
                                                                                        TOPOLOGY: 1: MOLECULE TYPE:
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APPLICATION NUMBER: US 07/936,219
FILING DATE: 27-AUG-1992
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CORRESPONDENCE ADDRESS:
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APPLICANT: Wieczorek, Leszek
APPLICANT: Ziegelmaier, Robe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 1300 I St
CITY: Washington,
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20005-3315
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                                                                                        peptide
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the regions 22-40 may be absent.
                                                                                                                                                                                                                                                                                                                                          DE P4128684.7
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                                                                                                                                                                                                                                                      05552-1210-04000
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       Mismatches
                        No.
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                    DB 1;
o. 2.2;
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                                       Length 51;
       Indels
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19 TAPAPAPT 26

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RESULT 20
US-08-388-883B-17
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Best Local Similarity 100.0%; Pred. No.
Matches 8; Conservative 0; Mismatc
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                                                                                                                                             08-462-211A-17
                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 202-408-4400 IT:
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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                                                                                                             ent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: DE P4128684.7 FILING DATE: 29-AUG-1991 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 23-FEB-1994
PRIOR APPLICATION DATA:
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APPLICATION NUMBER: U
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 5552-1210-02000 INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/0 FILING DATE: 13-FEB-1995 CLASSIFICATION: 435
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CITY: Washington,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & ADDRESSEE: Dunner L.L.P.
STREET: 1300 I Street, N.W., Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AME: Forman, David S
EGISTRATION NUMBER: :
                                                                                                                                                                                                                   35 TAPAPAPT 42
                                                                                                                                                                                                                                                 19 TAPAPAPT 26
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GY: linear
                                                                                                                            Application US/08462211A
                                                                                                                                                                                                                                                                                                                                                                                                                               51 amino acids
Stiber, Werner
Stiber, Werner
Mieczorek, Leszek
Ziegelmaier, Robert
Ziegelmaier, Robert
VENTION: HCMV-Specific Peptides, Agents Therefor
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/ENTION: HCWY-Specific Peptides, Agents Therefor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                              APPLICANT: LUSTER, HAIDREW D.
APPLICANT: LEDER, PHILIP
APPLICANT: ROTHENBERG, MARC
APPLICANT: ROTHENBERG, MARC
APPLICANT: GARCIA, EDUARDO
TITLE OF INVENTION: EOTAXIN: AN EOSINOPHIL CHEMOATTRACTANT
FILE REFERENCE: 00383/025002
CURRENT APPLICATION NUMBER: US/09/366,887A
CURRENT FILING DATE: 1995-08-04
PRIOR APPLICATION NUMBER: 60/000,449
PRIOR APPLICATION NUMBER: 08/522,713
DEIOR ETILING DATE: 1995-06-22
PRIOR APPLICATION NUMBER: 08/522,713
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TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO:
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APPLICATION NUMBER: US 07/936,219
FILING DATE: 27-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION UNMBER: DE P4128684.7
ENTITYC NATE: OA NUMBER: DE P4128684.7
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LENGTH: 51 amino acid
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MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE:
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les 8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE: 23-FEE
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        PELICATION NUMBER: 08/
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23-FEB-1994
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05-JUN-1995
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29-AUG-1991
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13-FEB-1995
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MBER: 08/522,713
1998-06-16
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Pred. No.
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US-09-366-887A-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Mus musculus US-09-886-319A-21
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LENGTH: 97
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                                      SEQ ID NO 4
                                                                    CURRENT APPLICATION NUMBER: US/09/646,028
CURRENT FILING DATE: 2000-09-12
PRIOR APPLICATION NUMBER: 60/077,745
PRIOR FILING DATE: 1998-03-12
NUMBER OF SEQ ID NOS: 57
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                             APPLICANT: Kwak, Larry
APPLICANT: Biragyn, Arya
TITLE OF INVENTION: METHODS AND COMPOSITIONS OF
TITLE OF INVENTION: CHEMOKINE-TUMOR ANTIGEN FUSION PROTEINS
FILE REFERENCE: 14014.0316/p
FILE REFERENCE: 14014.0316/p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US 60/222,081
PRIOR FILING DATE: 2000-08-01
PRIOR APPLICATION NUMBER: DE 10030149.5
PRIOR FILING DATE: 2000-06-20
NUMBER OF SEQ ID NOS: 84
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SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 14
LENGTH: 92
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APPLICANT: Goppelt, Andreas
TITLE OF INVENTION: Use of Polypeptides or Nucleic Acids for
TITLE OF INVENTION: Use of Polypeptides or Treatment of Skin Disorders and Wound
TITLE OF INVENTION: Healing and for the Identification of Pharmacologically
TITLE OF INVENTION: Active Substances
FILE REFERENCE: 50125/014002
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APPLICANT: Halle, Jorn-Peter
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LENGTH: 156
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5 ATLLCLLL 12
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lo. 4.1;
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US-08-460-874A-33
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Matches
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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ORGANISM: Artificial Sequence
FEATURE:
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                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION UMBER: DE P.
FILING DATE: 29-AUG-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn Release #1.0, V.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,874A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Stuber, Werner
APPLICANT: Wieczorek, Leszek
APPLICANT: Ziegelmaier, Robert
TITLE OF INVENTION: HCMV-Specific Peptides,
TITLE OF INVENTION: and the Use Thereof
                                                                                                                                                                                                                                                                               NAME: FORMAI, David S.
REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 05
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/936,219
FILING DATE: 27-AUG-1992
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CORRESPONDENCE ADDRESS:
                                                                                                                                               MOLECULE TYPE:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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CITY: Washington,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
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ZIP: 20005-3315
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                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                               LENGTH:
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59 TAPAPAPT 66
                               19 TAPAPAPT
                                                            h 2.3%; Score 8; DB Similarity 100.0%; Pred. No. 6. 8; Conservative 0; Mismatches
                                                                                                                                                                               : 162 amino acids amino acid
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1300 I Street,
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N: 435
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D. 6.4;
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US-08-388-883B-33
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PRIOR APPLICATION NUMBER: US 08/300,305

PRILING DATE: 23-FEB-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/936,219

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/936,219

PRIOR APPLICATION DATA:

APPLICATION NUMBER: DE P4128684.7

FILING DATE: 29-AUG-1991

FILING DATE: 29-AUG-1991
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SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: WIECZOREK, Leszek
APPLICANT: ZIEGEMALIER, Robert
TITLE OF INVENTION: HCMV-Specific Peptides, Agents Therefor
TITLE OF INVENTION: and the Use Thereof
NUMBER OF SEQUENCES: 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tent No.
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ATTORNEY/AGENT INFORMATION:
                          APPLICANT: Ziegelma
TITLE OF INVENTION:
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                          y Match 2.3%; Score 8; DB:
Local Similarity 100.0%; Fred. No. 6.'
hes 8; Conservative 0; Mismatches
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CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 55
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STREET: 1300 I Street, N.W., Suite 700
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                                                                                                                                                    33, Application US/08462211A
5. 6143493
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ISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                               59 TAPAPAPT 66
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)GY: linear
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Wieczorek, Leszek
Ziegelmaier, Robert
Ziegelmaier, Robert
VENTION: Hoff-Secific Peptides, Agents Therefor
VENTION: and the Use Thereof
EQUENCES: 49
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                                                                                                           Stuber, Werner
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Best Local Similarity 100.
Matches 8; Conservative
                                SOFTWARE: Microsoft Office 97
SEQ ID NO 4
LENCTH: 162
TYPE: PRT
                                                                                                                                                                                                                                                                                                      Sequence 4, Applic
Patent No. 6525244
                                                                                                APPLICANT: Allen, Steve
APPLICANT: Falco, Carl
APPLICANT: Falco, Carl
APPLICANT: Falco, Carl
TITLE OF INVENTION: Plant Histidinol-Phosphate Aminotransferase Homologs
FILE REFERENCE: BB1256 US NA
CURRENT APPLICATION NUMBER: US/09/433,241A
CURRENT FILING DATE: 1999-11-04
PRIOR APPLICATION NUMBER: 60/107,273
PRIOR APPLICATION NUMBER: 60/107,273
PRIOR PILING DATE: 1998-11-05
NUMBER OF SEQ ID NOS: 16
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INFORMATION FOR SEQ
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APPLICATION NUMBER: DE P412

FILING DATE: 29-ANG-100
ORGANISM: Oryza sp. FEATURE:
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PRIOR APPLICATION DATA:
US_08/388,883
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin.Release #1.0, Version
CURRENT APPLICATION DATA:
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TELECOMMUNICATION INFORMATION:
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PRIOR APPLICATION DATA:
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CITY: Washington,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Finnegan, Henderson, Farabow, ADDRESSEE: Dunner L.L.P.
STREET: 1300 I Street, N.W., Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
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REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 07/936,219 FILING DATE: 27-AUG-1992
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                                                                                                                                                                                                                                                                                   INFORMATION:
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29-AUG-1991
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; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (138)
; OTHER INFORMATION: X
US-09-433-241A-4
                                                                                                                                                                                                            RESULT 30
US-08-765-856-2
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; OTHER INFORMATION: Description of artificial sequence:/note=synthetic construct
US-09-646-028-9
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Best Local Similarity 100.
Thes 8; Conservative
                                                                                                                                                                         Sequence 2, Application US/08765856 Patent No. 6074817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS:
SOFTWARE: FastSEQ fo:
SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Kwak, Larry
APPLICANT: Biragyn, Arya
APPLICANT: Biragyn, Arya
TITLE OF INVENTION: METHODS AND COMPOSITIONS OF
TITLE OF INVENTION: CHEMOKINE-TUMOR ANTIGEN FUSION PROTEINS
FILE REFERENCE: 14014.0316/P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 9, Application US/09646028
Patent No. 6562347
                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: PRIOR FILING DATE: 1998-(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 14014.0316/P
CURRENT APPLICATION NUMBER: US/09/646,028
CURRENT FILING DATE: 2000-09-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-646-028-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                          ENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: UNSURE LOCATION: (137)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCATION: (136)
OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: UNSURE LOCATION: (88)
                                                                                    APPLICANT: Landini, Maria P.
APPLICANT: Ripalti, Alessandro
APPLICANT: Maine, Gregory T.
APPLICANT: Flanders, Richard T.
                              CORRESPONDENCE ADDRESS:
                                               APPLICANT: Flanders, Richard T.
TITLE OF INVENTION: RECOMBINANT MONO AND POLY ANTIGENS TO DETECT CYTOMEGALOVIRUS-
NUMBER OF SEQUENCES: 15
NDDRESSEE: Abbott Laboratories
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      336 EPAAAAAA 343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   55 EPAAAAAA 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                   ATLLCLLL 13
                                                                                                                                                                                                                                                                                                                                                       Conservative
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                          Length 171
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Matches
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PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: PCT/II
PILING DATE: 15-MAY-1995
PILING DATE: 15-MAY-1995
PILING DATE: 1NFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                               SOFTWARE: FastSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/935,009A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                 COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER: 28,128
REFERENCE/DOCKET NUMBER: 577
TELECOMMUNICATION INFORMATION:
TELEPHONE: (847) 937-6182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/00
FILING DATE: 27-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Weinstein, David L
REGISTRATION NUMBER: 28,128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                            COMPUTER: IBM Com
OPERATING SYSTEM:
                                                                                                                                                                                                                                                               COUNTRY:
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OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 TAPAPAPT 248
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1. 6177241
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                                                                                                                                                                                                                                                                                                 Abbott Park
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B; Conserv
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100 Abbott Park Road
                                                                                                                                                                                                                                                                  USA
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VENTION: USE OF PEPTIDES TO IMPROVE
VENTION: SPECIFICITY OF AN ENZYME II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (847) 938-2623
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                                                                                                                                                                                   IBM Compatible
SYSTEM: DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2.3%; Score 8; DB 3;
100.0%; Pred. No. 12;
htive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                      THE DETECTION OF HERPESVIRUS SPECIFIC IGM ANTIBODY
17
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Query Match
Best Local Similarity
"---hes 8; Conserv:
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US-08-765-856-4
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                                Query Match
Best Local S
Matches 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                          INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 302 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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LENGTH: 300 amino acid
                                                                                                                                                                                                                         NAME: Weinstein, David L.
REGISTRATION NUMBER: 28,128
REFERENCE/DOCKET NUMBER: 5750.US.O1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (847) 937-6182
TELEFAX: (847) 938-2623
                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION UNMBER: PCT/:
APPLICATION UNMBER: PCT/:
FILING DATE: 15-MAY-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/0
FILING DATE: 27-DEC-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Flanders, Richard T.
TITLE OF INVENTION: RECOMBINANT MONO AND POLY ANTIGENS TO DETECT CYTOMEGALOVIRUS-
NUMBER OF SEQUENCES: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER: 61
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847-937-6182
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   19 TAPAPAPT 26
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: Abbott Park
                              l Similarity
8; Conserva
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6074817
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ilarity 100.0%; Pred. No
Conservative 0; Misman
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                                  Conservative
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                              2.3%; Score 8; DB 3;
100.0%; Pred. No. 12;
tive 0; Mismatches
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                                                               Length 302;
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CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
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US-08-935-009A-4
                                                                                                                                                                                                                                                              US-09-252-991A-27884
                                                                                                                                                                                                                                                                                RESULT 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-935-009A-4
                                                                                                                                                                                        GENERAL INFORMATION: APPLICANT: Marc J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No. 6177241
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 4, Application US/08935009A Patent No. 6177241
                                                                                                                                                                                                                          Sequence 27884, Application US/09252991A Patent No. 6551795
                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                            APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: ARRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 302 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ VERSION 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/935,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER: 28,128
REFERENCE/DOCKET NUMBER: 61
TELECOMUNICATION INFORMATION:
TELEPHONE: 847-937-6182
TELEPAX: 847-938-2623
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: am:
TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
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100 Abbott Park Road
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13: USE OF PEPTIDES TO IMPROVE

N: SPECIFICITY OF AN ENZYME IMMUNOASSAY FOR

N: THE DETECTION OF HERPESVIRUS SPECIFIC IGM ANTIBODY
ES: 17
                                                                                                                                                                                                                                                                                                                                                                                                               2.3%; Score 8; DB 3;
100.0%; Pred. No. 12;
tive 0; Mismatches
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RESULT 36
US-09-110-116-4
; Sequence 4, Application US/09110116
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Best Local Similarity
Watches 8; Conserve
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; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27884
                                                                                                                                                                                                               US-08-405-175A-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 5, Application US/08405175A Patent No. 5885772
                                                                                                                                                  Matches
                                                                                                                                                                               Query Match
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EQ ID NO 27884
LENGTH: 303
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                                                                                                                                                                                                                                                                                                                                          TELEFAX: 201 343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
COMPUTER: FC COMPATION SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
                                                                                                                                                                                                               MOLECULE TYPE: protein
DESCRIPTION: predicted primary structure of human MARCKS
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION:
TELEPHONE: 201 487-5800
TELEFAX: 201 343-1684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IITLE OF INVENTION: METHOD FOR THE DETECTION OF ANENCEPHALY NUMBER OF SEQUENCES: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
                                                                                                                                                  Local Similarity
nes 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Jackson Esq., David A. REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                          STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                TOPOLOGY:
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                                                                                   GEPAAAAA 95
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Chen, Jianmin
Chang, Sandy
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100.0%; Pr
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100.0%; Pred. No. 13
ive 0; Mismatches
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Pred. No. 12;
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o. 13;
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GENERAL INFORMATION:
APPLICANT: Xu, Hong
APPLICANT: Xu, Hong
APPLICANT: Cohan, Victoria L.
APPLICANT: Stuart, Susan G.
TITLE OF INVENTION: HUMAN EMRI-LIKE G PROTEIN COUPLED
TITLE OF INVENTION: RECEPTOR
FILE REFERENCE: PF-0550 US
CURRENT APPLICATION NUMBER: US/09/110,116
CURRENT TILING DATE: 1998-07-02
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; FEATURE:
; OTHER INFORMATION: 2935597, GenBank
US-09-110-116-4
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Best Local Similarity 100.0%;
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                                                ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J
REGISTRATION UNMER: 36,749
REFERENCE/DOCKET NUMBER: PF-0
TELEPONUMICATION INFORMATION:
TELEPONE: 650-855-0555
TELEPAX: 650-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 344
TYPE: PRT
ORGANISM: HOMO SAPIENS
NFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                           CLASSIFICATION:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                              SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/032,523
                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 3174 POI
CITY: Palo Alto
                                                                                                                                                                                                                                                                                                            COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                                                                                                          APPLICATION NUMBER:
                                                                                                                                                                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DDRESSEE:
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JE OF INVENTION: HUMAN PROTEINASE MOLECULES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            69 LLCLLLAA 76
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Hillman, Jennifer L.
Corley, Neil C.
                                                                                                                                                                                                                                                                                                                  IBM Compatible
                                                                                                                                                                                                                                                                                                                                                     Diskette
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o. 14;
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TYPE: amino acid STRANDEDNESS: si

single

ENGTH:

415 amino acids

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US-09-252-991A-30846
                                                                                                          ; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27213
                                                                                                                                                                     SEQ ID NO 30846
LENGTH: 428
                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION: APPLICANT: Marc J.
                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 30846, Application US/09252991A Patent No. 6551795
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LENGTH: 417
                                           Matches
                                                             Query Match
Best Local
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                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
                                                                                                                                                                                                                                                                                                                                   APPLICANT: MAIC J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/252,991A CURRENT FILING DATE: 1999-02-18 PRIOR APPLICATION NUMBER: US 60/074,788 PRIOR FILING DATE: 1998-02-18
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PITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS DETILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
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IMMEDIATE SOURCE
LIBRARY: RATRI
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Similarity 100.0%; Pred. No. 8; Conservative 0; Misman
                                         Similarity
8; Conserv
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100.0%; Pred. No
                                                         2.3%; Score 8;
100.0%; Pred. No.
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Mismatches
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                                                                           DB 4;
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                                         Indels
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RESULT 40
US-09-433-241A-12
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Patent No. 6207814
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Microsoft Office 97 SEQ ID NO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Falco, Carl
APPLICANT: Raifaleki, Antoni
TITLE OF INVENTION: Plant Histidinol-Phosphate Aminotransferase Homologs
FILE REFERENCE: BB1256 US NA
CURRENT APPLICATION NUMBER: US/09/433,241A
CURRENT FILING DATE: 1999-11-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 1998-11-05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 435
TYPE: PRT
ORGANISM: Oryza sativa
            APPLICATION NUMBER: US/09/382,256A
FILING DATE: 24-Aug-1999
CLASSIFICATION 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB93/02367
FILING DATE: No. 6207814ember 17, 1993
APPLICATION NUMBER: GB 9224057.1
FILING DATE: No. 6207814ember 17, 1992
APPLICATION NUMBER: GB 9304677.9
APPLICATION NUMBER: GB 9304677.9
FILING DATE: March 8, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity 100.0%;
hes 8; Conservative
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TEN DIJKE, Petter
FRANZEN, Pettra
FRANZEN, Pettra
FRANZEN, Pettra
YAMASHITA, Hidetoshi
HELDIN, Carl-Henrik
TITLE OF INVENTION: ACTIVIN RECEPTOR LIKE KINASES,
HAVING SERINE THREONINE KINASE
                                                                                                                                                                                                           COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-1
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                   ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM_TYPE: Diskette, 3.25 inch, 1.44mb
                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
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                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Application US/09382256A
                                                                                                                                                                                                                                                                                                                          10103
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NUMBER: GB 9304680.3
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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o. 17;
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RESULT 42
US-09-395-115-10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Activin Receptor-Like Kinase, Parittle OF INVENTION: Activin Receptor-Like Kinase, Parittle OF INVENTION: Having Serine Threonine Kinase, Correspondence Address: 29

CORRESPONDENCE ADDRESS:
ADDRESSE: Felfe.
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                                                                   PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/436,265

FILING DATE: 30-OCTOBER: PCT/GB93/02367

FILING DATE: 17-No. 6271365ember-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 9224057.1

APPLICATION NUMBER: 9224057.1

FILING DATE: 17-No. 6271365ember-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 9304677.9

APPLICATION NUMBER: 9304677.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE: (212) 318
TELEPAX: (212) 752-5
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                            COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/395,115
            FILING DATE: 8-March PRIOR APPLICATION DATA: APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                          CLASSIFICATION:
                                                                                                                                                                                                                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: NO. 6207914man D. Hanson
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5298.1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         338 AAAAAALL 345
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APPLICATION NUMBER: 9313763.6
FILING DATE: July 2, 1993
APPLICATION NUMBER: 9316099.2
FILING DATE: August 3, 1993
APPLICATION NUMBER: 321344.5
FILING DATE: October 15, 1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 503 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New York
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                    8-March-1993
8-March-1993
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100.0%; Pred. No. 20;
Tative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Having Serine Threonine Kinase Domains And Their Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   March 8, 1993
NUMBER: 9311047.6
                9304680.3
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LENGTH: 503 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-395-115-10
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US-08-436-265-10
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                                              APPLICATION NUMBER: US/08/436,265
FILING DATE: 30-October-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB93/02367
FILING DATE: 17-No. 6316217ember-1993
PRIOR APPLICATION NUMBER: 9224057.1
APPLICATION NUMBER: 9224057.1
FILING DATE: 17-No. 6316217ember-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 9304677.9
FILING DATE: 8-March-1993
DEFICE APPLICATION NUMBER: 9304677.9
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PILING DATE: 3-August-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 9321344.5
PILING DATE: 15-Ootober-1993
ATTORNEY/AGENT INFORMATION:
NAME: Kohlei, Vineet
                                                                                                                                                                                                                                                                                SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Miyazono, Kohei; Dijke, Peter Ten;
APPLICANT: Franzen, Petra; Yamashita, Hidetoshi; Heldin, Carl-Henrik
TITLE OF INVENTION: Activin Receptor-Like Kinase, Proteins
TITLE OF INVENTION: Having Serine Threonine Kinase Domains And Their Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: LUTELECOMMUNICATION INFORMATION: (212) 688-9200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 9313'
PILING DATE: 2-July-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                      PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                      STATE: NC. 10022
                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 9136099.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                         York City
                    NUMBER:
                                                                                                                                                                                                                                                                                                                                                             Diskette, 3.5 inch, 360 kb storage
MBER: 9304680.3
8-March-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-May-1993
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Mismatches
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PRIOR APPLICATION DATA:

APPLICATION NUMBER: FILING DATE: 28-May

28-May-1993

9311047.6

APPLICATION DATA:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1
Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 503 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Miyazono, K
APPLICANT: Franzen, Pe
TITLE OF INVENTION: AC
TITLE OF INVENTION: Ha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 9136099.2 FILING DATE: 3-August-1993 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 2-July-1993 PRIOR APPLICATION DATA:
                                                   APPLICATION NUMBER: PCT/GB93/02367
FILING DATE: 17-No. 6331621ember-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 9224057.1
FILING DATE: 17-No. 6331621ember-1992
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                            APPLICATION NUMBER: US/09/679,187
FILING DATE: 03-OCT-2000
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 9321344.
FILING DATE: 15-October-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                        APPLICATION NUMBER: US/08/436,265
FILING DATE: 30-October-1995
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805.Third Avenue
CITY: New York City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: LUTELECOMMUNICATION INFORMATION: TELEPHONE: (212) 688 9200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                  CIL.
STATE: NC
1002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: FILING DATE: 2-Jul:
APPLICATION NUMBER: 93046'
FILING DATE: 8-March-1993
NIOR APPLICATION DATA:
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les 8; Conserv
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TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AME: Kohlei, Vineet
EGISTRATION NUMBER: 37,003
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6331621
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100.0%; Pred. No. 20;
tive 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  , Kohei; Dijke, Peter Ten;
Petra; Yamashita, Hidetoshi; F
Activin Receptor-Like Kinase,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9321344.5
                                         9304677.9
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RESULT 46 US-08-956-322-4

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Sequence 4, Application US/08956322 Patent No. 6277977

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US-08-999-689A-6
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                                                                                                                         US-08-999-689A-6
                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                       Sequence 6, Application US/08999689A
Patent No. 6541615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local (
                                                                                        Query Match
                                                             Matches
                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/08/99,689A CURRENT FILING DATE: 1997-11-14 PRIOR APPLICATION NUMBER: 60/030,964 PRIOR FILING DATE: 1996-11-15
                                                                                                                                                                                                                                                                                                                                        HENERAL INFORMATION:
APPLICANT: ULLRICH, AXEL
APPLICANT: KHARITONENKOV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: SIRP PROTEINS AND USES THEREOFFILE REFERENCE: 038602/0548
                                                                                                                                                                                                                                                                                                                              PPLICANT:
                                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                                        TYPE: PRT
                                                                                                                                                                      LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 503 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 15-October-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 3-Augus PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 2-July-
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 100.0%; hes 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Kohlei, Vineet
REGISTRATION NUMBER: 37,003
REFERENCE/DOCKET NUMBER: LU
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                                                          Local Similarity
es 8; Conserv
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14 LLCLLLAA 21
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15-October-1993
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2-July-1993
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                                                             Score 8; DB 4;
; Pred. No. 20;
0; Mismatches
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GENERAL INFORMATION:

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; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30878
                                                                                                                                                                                                                                                                                                                                         Sequence 30878, Application US/09252991A Patent No. 6551795
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                                                                       SEQ ID NO 30878
                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                             PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
                                                                                                                                                                                                 FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
                                                                                                                                                                                                                                        APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AEROGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: 4:
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SOFTWARE: PASKSQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/956,322
FILING DATE: 23-OCT-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/049,329
FILING DATE: 13-TW: 10-7
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-407-0700
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ATTORNEY/AGENT INFORMATION:
NAME: PRESTIA, PAUL F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: RATMER & PRESTIA
STREET: P.O. BOX 980
CITY: VALLEY FORGE
                                                      ENGTH: 607
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TLE OF INVENTION: CDNA CLONE HAPOI67 THAT ENCODES THE OF INVENTION: A HUMAN 7-TRANSMEMBRANE RECEPTOR
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Patent No. 6013479
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Best Local Similarity
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LENGTH: 652
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patent No.
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Patent No. 6277977
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APPLICANT: SATHE, GANESH
APPLICANT: MAO, JOYCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Xu, Hong
APPLICANT: Cohan, Victoria L.
APPLICANT: Stuart, Susan G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: HUMAN EMR1-LIKE G PROTEIN COUPLED TITLE OF INVENTION: RECEPTOR FILE REFERENCE: PF-0550 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/110,116
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               FILING DALL.

CLASSIFICATION: 536
PRIOR APPLICATION DATA:
PAPPLICATION NUMBER: 60/049,329
APPLICATION 11-JUN-1997
APPLICATION:
                                                                                           SOFTWARE: FASTSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/956,322
FILING DATE: 23-OCT-1997
                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
FILING DATE: 11-JUN-1997
ATTORNEY/AGENT INFORMATION:
NAME: PRESTIA, PAUL F
                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: RATNER & PRESTIA
STREET: P.O. BOX 980
                                                                                                                                                                                                                                                                                                                                               TUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                   STREET: F.C. FORGE
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                                                                                                                                                                COMPUTER: IBM Compatible OPERATING SYSTEM: DOS
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s; Pred. No. 25;
0; Mismatches
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REGISTRATION NUMBER:

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Sequence 5, Application US/09413814

Patent No. 6225064

APPLICANT: Bristol-Myers Squibb, Co. Applicant: Bloecker, Stefan

APPLICANT: Bloecker, Helmut

APPLICANT: Bloecker, Helmut

APPLICANT: Goldberg, Steven L

APPLICANT: Goldberg, Steven L

APPLICANT: Mueller, Joachim

APPLICANT: Mueller, Joachim

APPLICANT: Reichenbach, Hans

TITLE OF INVENTION: box sequences for enzymatic synthesis of polyketide or TITLE OF INVENTION: beteropolyketide compounds

FILE REFERENCE: PCT/US 99/23535

CURRENT APPLICATION NUMBER: US/09/413,814

CURRENT APPLICATION NUMBER: US/09/413,814

CURRENT APPLICATION NUMBER: DE 198 46 493.2

EARLIER FILING DATE: 1998-10-09

NUMBER: PS SQC ID NOS: 107

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 5

LENGTH: 899

TYPE: PST

ORGANISM: Sorangium cellulosum

US-09-413-814-5
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Search completed: February 21, 2004, 01:52:15
Job time : 39 secs
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TELEX: 846169
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
STRANDEDNUSS: single
TOPOLOGY: linear
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                                                                                                                                                                                                     Query Match 2.3%; Score 8; DB 3; Best Local Similarity 100.0%; Pred. No. 34; Matches 8; Conservative 0; Mismatches
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TELEPHONE: 610-407-0700
TELEPHAN: 610-407-0701
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368 LLCLLLAA 375
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                                                                                                   882 EPAAAAA 889
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                                                                                                                                                                                                                                                            Length 899;
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